The
CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JUNE 7 1958

KIRBY
OF LONDON
Pharmaceutical Manufacturers

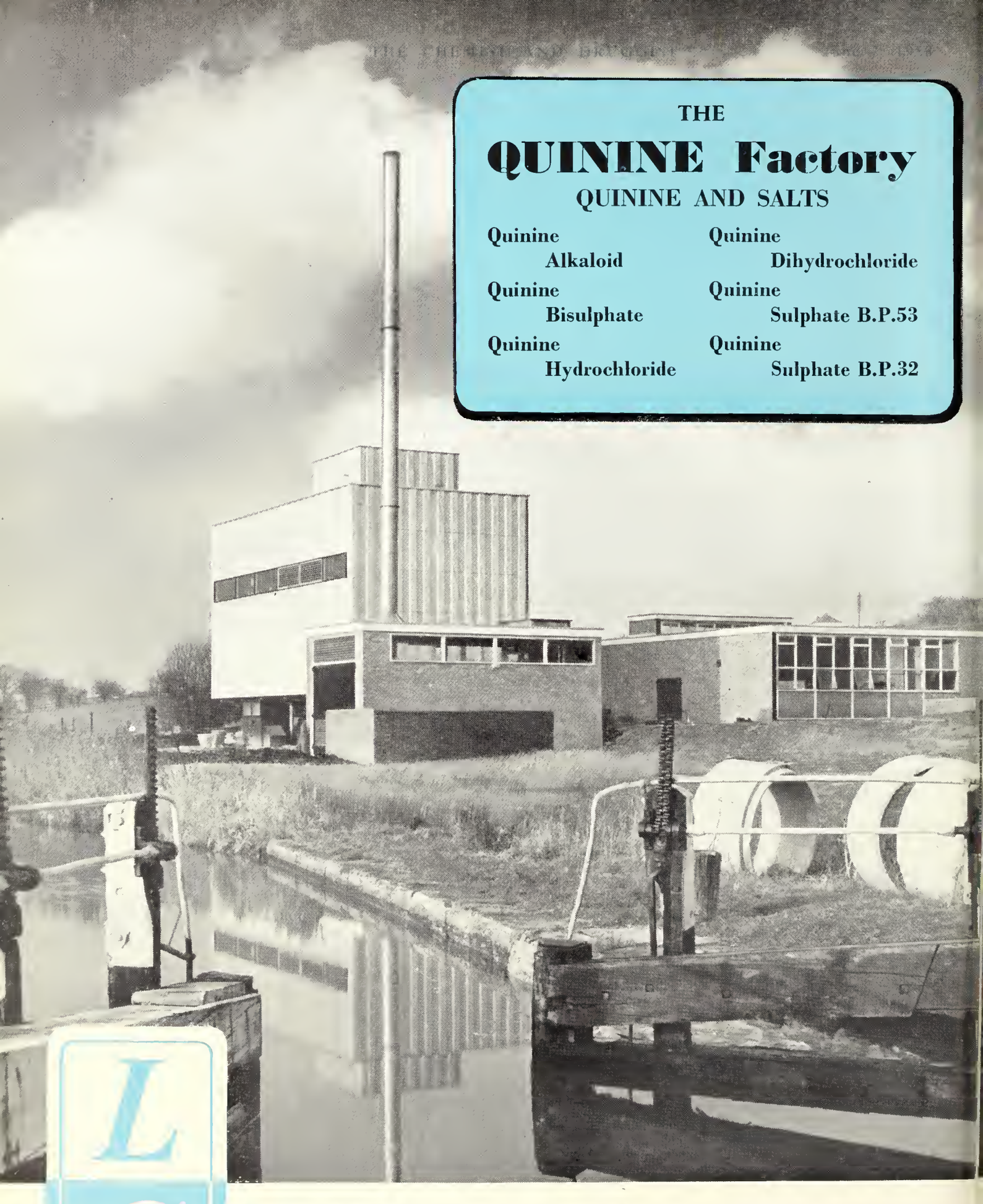
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•
SPECIAL FORMULÆ PREPARED

for

PILLS · TABLETS · CAPSULES
PESSARIES · SUPPOSITORIES · PENICILLIN PRODUCTS
OINTMENTS FOR THE EYE · SOFT GLYCERIN LOZENGES
STERILE PRODUCTS · SOLUTION TABLETS
PACKED PHARMACEUTICALS

H. & T. KIRBY & CO. LTD.
EST. 1866
Manufacturing Chemists
WILLESDEN GREEN, LONDON, N.W.2
Phone : Willesden 1146. Grams : Kirbilim, Norphone, London
Code : Bentley's (2nd)

Home & Export Enquiries Invited



THE

QUININE Factory

QUININE AND SALTS

Quinine Alkaloid	Quinine Dihydrochloride
Quinine Bisulphate	Quinine Sulphate B.P.53
Quinine Hydrochloride	Quinine Sulphate B.P.32

L C

LAKE & CRUICKSHANK LTD.

MANUFACTURING CHEMISTS

NORTH BRIDGE ROAD · BERKHAMSTED · HERTS

Phone: Berkhamsted 1880/1/2 *Cables: Lake Berkhamsted*

HIGHEST TOLERATION

PRACTICAL DOSAGE COMBINATIONS

SATISFACTORY CLINICAL RESPONSE

Physicians therefore specify

Calcium B-PAS WANDER

and

B-Pasinah WANDER

(calcium B-PAS Wander plus isoniazid)

in the domiciliary

Chemotherapy of Tuberculosis

B-PAS (Wander), 4-benzoylamino-2-hydroxybenzoic acid, first introduced by our Research Laboratories in 1948, is the drug of choice in regimens comprising PAS in concurrent therapy.

In the form of its calcium salt, it induces only minimal side-effects as compared with sodium PAS, and because of its high acceptability guarantees as far as possible that domiciliary patients take their medication.

CALCIUM B-PAS (Wander)

Powders: Tins of 150 and 400 x 3.5g. envelopes
Cachets: ,, ,, 80 and 400 x 1.0g.

Also available: Sodium B-PAS (Wander) in 1.5g. Cachets.

'B-PASINAH' (B-PAS plus Isoniazid)

Powders: Calcium B-PAS (Wander) 3.5 g.
Isoniazid ... ... 87.5 mg.
Tins of 150 and 400

Cachets: Calcium B-PAS (Wander) 1 g.
Isoniazid ... ... 25 mg.
Tins of 100 and 500

Price details of all forms of PAS from the Medical Dept.

All Wander tuberculostatic products are available from usual wholesalers or direct from

A. WANDER LIMITED, 42 UPPER GROSVENOR ST., GROSVENOR SQ., LONDON W.1

T56

IMPROVED PHENOTHIAZINE DERIVATIVE

NEW

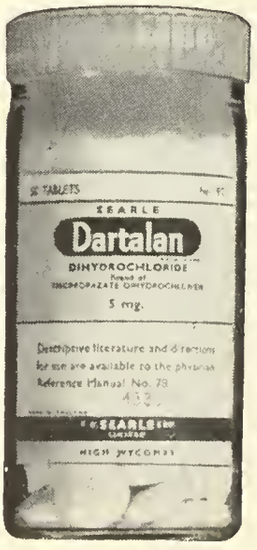
Easier control of psychoses, neuroses and anxiety states

Dartalan*

DIHYDROCHLORIDE

BRAND OF
THIOPROPAZATE
DIHYDROCHLORIDE

- **gives consistently effective results with low dosage.**
- **is safe, has minimal side effects.**
  (In specially designed studies and clinical trials in 727 patients, no liver toxicity was reported.)
- **relaxes the disturbed mind, and invests the patient with a sense of well-being and normality.**



AVERAGE DOSAGE:
In the psychoses:
10 mg. three times daily
In the neuroses:
5 mg. three times daily

AVAILABILITY:

	Retail Price	*Trade Price*
5 mg. Tablets		
50's	17/9	11/10
500's	162/6	108/4
10 mg. Tablets		
50's	31/-	20/8
500's	279/-	186/-

*Registered Trade Mark

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G. D. SEARLE & CO. LTD., HIGH WYCOMBE, BUCKS.

SIGNIFICANT SYMBOLS IN PHARMACY.....



The ancient symbol for Sublimated Mercury used in the Alchemical Treatises of the 15th Century. . . .



THE TREE OF LIFE, SYMBOL OF THE HIGHEST QUALITY IN FINE CHEMICALS TODAY.

CARNEGIES of WELWYN

ESTABLISHED 1911

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ANDRENOCHROME MONOSEMICARBAZONE
AMINOPHYLLINE
ATROPINE & SALTS
BISMUTH SALTS
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EPHEDRINE & SALTS
HOMATROPINE & SALTS
HYDANTOIN DERIVATIVES
IODIDES
ISONICOTINIC ACID HYDRAZIDE
ISOPRENALINE SALTS
LITHIUM SALTS
METHOIN
NORADRENALINE & SALTS
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QUININE & SALTS
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For nearly half a century the name Carnegies has served as a standard in the fine chemical field for products of utmost purity and rigid adherence to pharmaceutical specification. Direct importation of raw materials, and the completion of every process under our own roof at Welwyn Garden City, enables us to compete successfully with world suppliers in any part of the globe. Yet we welcome and treat with equal importance the smaller orders too.

CARNEGIES OF WELWYN LTD.

Welwyn Garden City, Hertfordshire, England.

Phone: WELWYN GARDEN 5001 (10 lines)
Cables: CARNEGIES, WELWYNGARDENCITY
Telex: LONDON 28676

Pollen or dust can give
your customers hay fever.
Put them out of their misery
by recommending

BESORBON
REGD. TRADE MARK

MEDICINAL SNUFF

the **proved** remedy

Your wholesaler
can supply you promptly.
Orders of one dozen come in
attractive counter display box for

MORE SALES—MORE PROFIT

Kemsales Ltd., 20 Eastcheap, London, E.C.3

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BROWN — GREEN — LILAC — CLARET
WHITE SULPHITE in sheets 20″ × 30″, 16 lbs.

WHITE DEMY
17½″ × 22½″ and cut to standard sizes.

WE ALSO SUPPLY COUNTER REELS AND HOLDERS.
SAMPLES WITH PLEASURE.

James Townsend
AND SONS LIMITED
SPECIALIST CHEMISTS' PRINTERS
P.O. BOX No. 12
MUSGRAVE HOUSE, WESTERN WAY, EXETER

Dyanese
FADELESS
DYES

3d. **STOCKING** (except Black) .. 27 - gross
4½d. **COLD WATER, CURTAIN** and Black Stocking Dyes .. 41 - gross

Order Dyes and Shade Cards from our Agents
Gt. Britain: **W. B. Cartwright Ltd., Rawdon, Leeds**
N. Ireland: **T. M. Mullan & Co., Ltd., 42 Victoria Street, Belfast,** *Eire:* **May Roberts (Ireland) Ltd., Grand Canal Quay, Dublin, C.6**

LABORATORY NATIVELLE LTD, *presents :*

NATISEDINE

A new GENERAL SEDATIVE with elective cardiac action

Each tablet contains:
Phenylethylbarbiturate of Quinidine : 0. 10 gm.
A new, crystalline salt of high purity, stable and with definite physical characteristics.

Bottle of 20 ... ... **Retail price 10/3**
Bottles of 100 (Dispensing Packs)

LABORATORY NATIVELLE LTD
74 White Lion Street, London, N.1
Other lines : DIGITALINE NATIVELLE — OUABAINE ARNAUD IODHEMA—NATIROSE

MANUFACTURER'S OFFER OF
STEEL SHELVING

- *Brand new — Manufactured in our own works*
- *Shelves adjustable every inch*
- *Heavy gauge shelves will carry 400 lb. each*
- *Stove enamelled dark green*
- *6 shelves per bay — extra shelves 8/- each*
- *Quantity discounts*

72″ High
34″ Wide
12″ Deep

Telephone : 69018/9

Delivered FREE £3 15s.
ENGLAND, SCOTLAND & WALES

Ready for Erection

N. C. BROWN LTD.
SHELVING DIVISION · EAGLE STEEL WORKS
HEYWOOD · LANCS





an ***All-Steel***
DRAWER UNITS

The Standard drawer, 5 in. wide × 3 in. high × 11¼ in. long containing one free divider and drawer card Sample will be sent on request.

20 of these drawers are contained in the "INDUSTRIAL TWENTY." Overall size, 42 in. high × 13 in. wide × 12 in. deep. Delivered free **£7.15.0.**

Send for leaflets of other sizes.
Stove Enamelled Dark Green.



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..so I told the customer without hesitating...

"I can get it for you tomorrow, Sir"

I was pretty sure that Fallowfield's could put it in the post that night. A tricky job well done and a customer won. He'll come back again for his photographic requirements. With Fallowfield backing and full retail discount, I can't fail.



Fallowfield LTD **lead the photographic field**

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Telephone: MUSeum 7401/2/3

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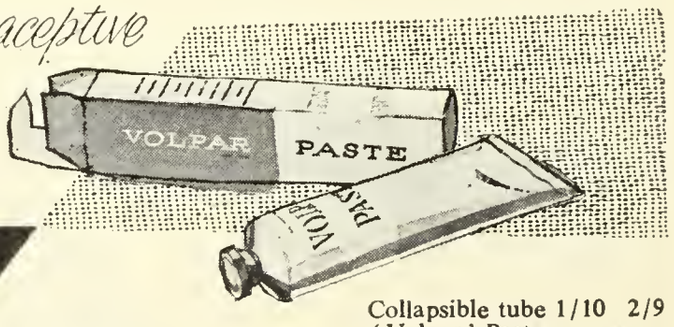
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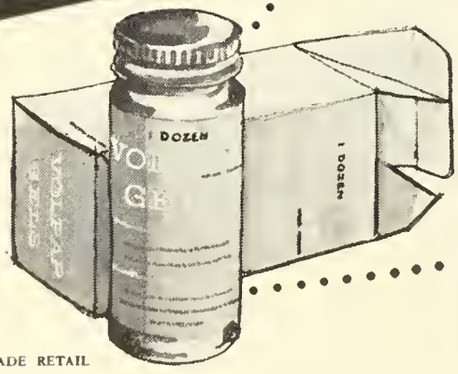
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An aesthetically acceptable contraceptive

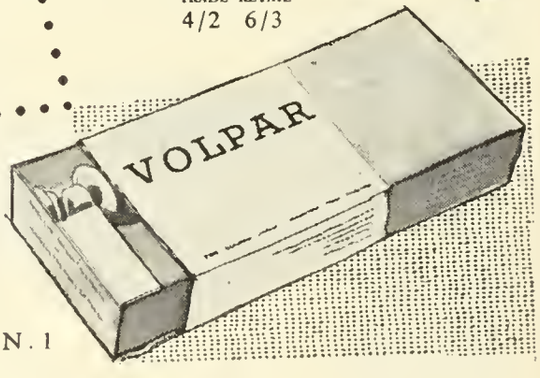


'VOLPAR'
TRADE MARK
GELS AND PASTE

Collapsible tube 1/10 2/9
'Volpar' Paste TRADE RETAIL



'Volpar' Paste and Applicator combined pack
TRADE RETAIL
4/2 6/3



'Volpar' Gels TRADE RETAIL
Bottle of one dozen 1/10 2/9

THE BRITISH DRUG HOUSES LTD, LONDON N.1

BRITISH ALKALOIDS LIMITED

(MANUFACTURERS OF T.C.P.)

IMPROVED RESULTS

The twenty-ninth Annual General Meeting of British Alkaloids Limited was held on 3rd June at Winchester House, Old Broad Street, London, E.C.2.

The following is the circulated statement of the Chairman, Mr. E. Oswald Toft, F.C.A., F.Inst.D. :—

In the first place I would draw your attention to the Profit and Loss Account for the year ended 31st March, 1958. A comparison of this account with that for 1957 shows that the Gross Profit on trading has increased by £30,821 to a figure of £144,467, thus refleeting the much higher turnover during the year. The balance of Advertising Expenditure written off this year is also greater by £8,350 than that for the preeeding year and, as in the past, no value is shown on the Balance Sheet for Advertising Goodwill.

The charge for Taxation of £46,550 in the Profit and Loss Aceount is computed on the profit for the year and includes the Company's Profits Tax liability ealculated on the same basis as last year. In the event of your Company making precisely the same profit in the year to 31st March, 1959, the change in the incidence of Profits Tax would reduce your Company's liability to this Tax by some £6,000. In the meantime the total charge for Taxation this year is £9,950 greater than that for last year, prineipally of eourse as a result of the satisfactory increase in profits. Despite this charge we have transferred the sum of £10,000 to General Reserve, bringing our total surplus on Revenue Account shown on the Balance Sheet to a figure of £90.223. After all appropriations have been taken into account, including the Interim Dividend already paid, there is a balanee standing to the eredit of this year's Profit and Loss Appropriation Aceount of £25,921, available for the payment of a Final Dividend, which your Board now recommend should be 2·4 pence per share less Income Tax on the Issued Share Capital of the Company.

Subject to their approval of the Dividend, warrants will be posted to Shareholders on the 3rd June, 1958.

CAPITAL COMMITMENTS

Your Directors have given long and careful consideration to plans for the further modernisation of our Factory Premises, and you will note from the Balance Sheet that during the year under review we are committed to Capital Expenditure on this projeet amounting to £32,000, of whieh £9,905 had already been spent at the date of the Balance Sheet. Your Direetors consider that the whole of this expenditure can be finaneed out of your Company's current resources, as the reserves built up over past years, together with the transfer of £10,000 this year, should prove adequate for this purpose. In this connection you will note that Current Assets standing at £220,441, exceed Current Liabilities and Provisions by the very substantial sum of £148,509, after making provision for the Final Dividend. If the whole expenditure on Capital Account had to be provided immediately from our eurrent resources the excess would still amount to £126,414. Further expenditure on this account of some £13,500 for which we have not yet eontracted, is envisaged.

It will be noted that expenditure on Plant and Machinery during the year was negligible. This asset continues to be adequately maintained out of Revenue.

EXPANSION IN TURNOVER

As reported in the Press at the time of the declaration of the Interim Dividend in the Autumn, there had been an increase in turnover for the first six months of the year under review as eompared with that for the same six months of the previous year, and I am pleased to state that in the final six months of the trading period a considerable increase in turnover has materialised compared with that of the corresponding period last year. So far as your Company's Home trade is eoncerned, the increase is largely due to the public demand for T.C.P. and T.C.P. Pastilles during the influenza epidemic—October in fact providing an all-time monthly record in turnover. The demand for T.C.P. and T.C.P. Pastilles at this time emphasises the immensely valuable support we continue to give to the Health Service in making our preparations readily available to the public at such times and thereby relieving the strain on the hard pressed family Doctor. It is therefore extremely disappointing to your Directors to find that the Chancellor made no reduction in Purchase Tax on medicinal preparations such as ours, especially in view of the extensive and varied reductions that he made in this Tax in April of this year. One can only assume that the Chancellor prefers to make members of the public pay extra for looking after their own health, rather than forgo even part of what must be an extremely remunerative source of revenue for him.

As regards our Export trade, I am pleased to report a very satisfactory expansion particularly in the Australian, Eire and South African markets. Steady, though slow progress is being shown in Canada, which encourages the hope that this market may yet develop into one of some importanee.

BUSINESS PROSPECTS

Since the 31st Mareh, 1958, turnover has been maintained and I think that, barring unforeseen cireumstances, this state of affairs might well be expected to continue, with the qualifieation that one cannot neeessarily expect a repetition of the exceptional demand for our products whieh oeeurred in the epidemic period of our 1957–58 trading year.

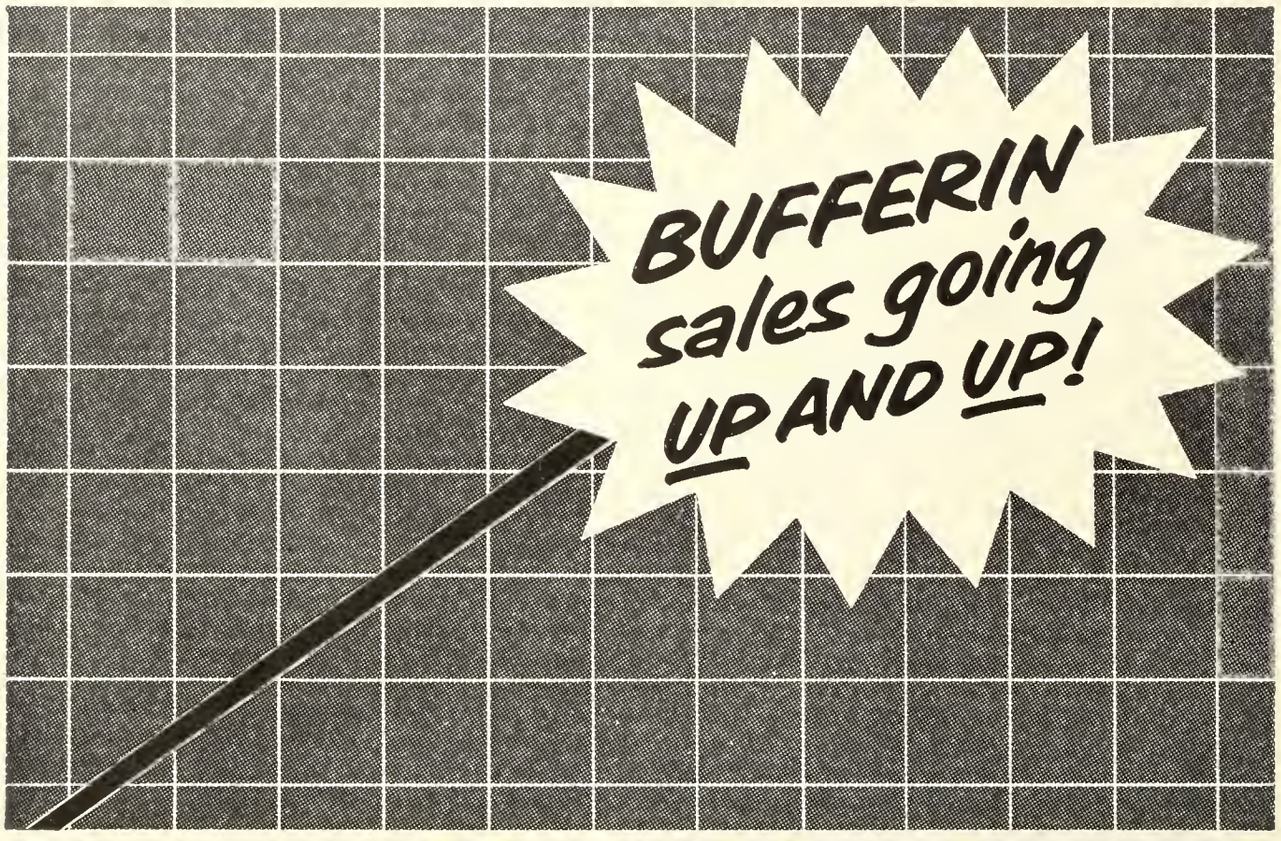
About this time last year I expressed the view that a period of more stable prices might conceivably be approaching and I am now pleased to note that a tendency towards price stability has in faet become increasingly apparent in recent months. Providing the Government's remedies against inflation continue flexible and are maintained no longer than is clearly necessary, business prospects, I feel, can be viewed with reasonable optimism.

Once again, I have pleasure in extending my thanks and appreeiation to all sections of the Pharmaceutical Trade for their valued eo-operation throughout the year, also to the Company's staff and our Marketing Agents for the efforts whieh they have made towards producing sueh a satisfaetory result.

The Report and Aceounts were unanimously adopted, and a final dividend of 2·4 pence per share, less Income Tax, for the year was passed.

The retiring Director, Mr. K. G. Patteson, was re-elected, and the remuneration of the Auditors, Messrs. Oakley, Wederell & Co., having been fixed, the proceedings terminated with a cordial vote of thanks to the Chairman, Directors and Staff.

Faster-acting, better tolerated



Heavy BUFFERIN advertising will boost sales even higher! You have probably noticed the rising demand for BUFFERIN in the last few months. This demand is going to increase still further. Just started is a BUFFERIN campaign sure to send sales—and that means profits—*soaring!* Take a look for yourself:

* BUFFERIN leaflets in colour mailed to 35,000 doctors and nurses every month.
* Regular mailings to 14,000 dentists.
* Whole page advertisements in the medical and dental press.

This advertising clinically proves that BUFFERIN is the *faster-acting*, *better-tolerated* salicylate preparation, and explains its unique advantages to the medical and dental professions. This will result in an even greater demand for BUFFERIN . . .

BUFFERIN Antacid Analgesic prices:

Packets of 12 . . . 12/9 doz. (list) 1/10 each (inc. P.T.) retail
Bottles of 36 . . . 31/6 doz. (list) 4/6 each (inc. P.T.) retail
Dispensing Pack of 500 . . . 30/- each (Plus 9/- P.T.)*
Dispensing Pack of 100 . . . 6/6 each (Plus 1/11 P.T.)*

**Available to chemists, hospitals and dispensaries.*

Order through your wholesaler, or direct from sole distributors:
J. C. Gambles & Co. Ltd., 209-215 Blackfriars Rd., London, S.E.1

SO STOCK UP NOW!

BUFFERIN MAILING LEAFLETS ARE AVAILABLE ON REQUEST

BUFFERIN

ANTACID ANALGESIC

IS THE TRADE MARK OF THE BRISTOL-MYERS CO. LTD., LONDON AND NEW YORK

sunglasses



TO HELP YOU Whitecross introduce the "Scala" box—a compact unit containing a selection (2s. 6d.—7s. 6d., retail) of 24 Italian ladies sunglasses together with a free display stand—simple, attractive and space-saving.

TO BOOST YOUR SALES the Whitecross Range for 1958 is being given **TELEVISION** advertising backing.
ASK your usual wholesaler for our illustrated brochure.

★ SEE our **RHODOGLASS** Lightweights—from France—an up-to-the-minute range with extra sales appeal—retailing from 3s. 11d.

REG. TRADE MARK

★ **Whitecross** Optical Company
(Proprietors, Fredk. Lehmann Co. Ltd.)
Frederick Works. Rochester Place, London, N.W.1.
Telephone: GULliver 6731-2-3

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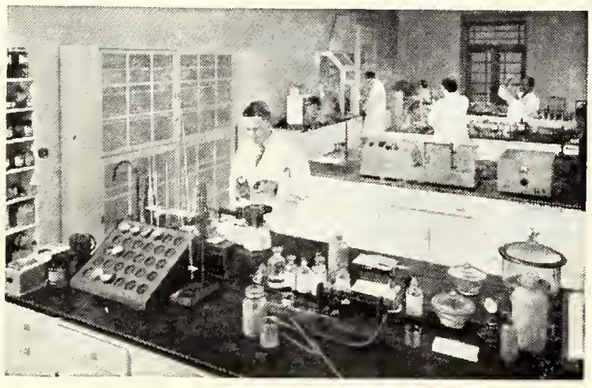
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ONLY Scherer's

CAN PROVIDE THE COMPLETE CAPSULE SERVICE YOU DEMAND

Multi-vitamins represent an important, rapidly growing market; they are essential to health. Only the large, *scientifically* controlled Scherer organisation is geared up to provide you with an unequalled, comprehensive and fully confidential production service—NOW.



LABORATORY CONTROL
Scherer's Triple Guarantee

1. All materials analysed on delivery.
2. All mixes analysed before encapsulation.
3. All capsules analysed before despatch and protocols available on request.

PROTECTION
Hermetic sealing ensures the perfect, permanent proteetion, essential with many vitamins.

YOUR SAFEGUARD
Thousands, or millions, of gelatin capsules can be produced completely to *your* formula —in colours and shapes *exclusive to you.*

ACCURACY
Fill tolerance to within 1%.

COMPLETE SERVICE
The Scherer service means no capital outlay on your part; you supply your formula, and the encapsuled produets, guaranteed, will be delivered to you complete—even strip paeked if you wish.

R. P. **Scherer Ltd.**

can encapsulate most pharmaceuticals—please ask for details

R. P. SCHERER, Ltd., 216-222 BATH ROAD, SLOUGH, BUCKS. 'Phone: SLOUGH 21241

THRU

proves a phenomenal success!

IN ANSWER TO NUMEROUS REQUESTS Rexall ANNOUNCE A

MORE ECONOMICAL SIZE to sell at 9/9

Since being launched on a national scale, sales of "THRU", Rexall's penetrating analgesic lotion for muscular aches and pains, have exceeded all expectations. Reports from all over the country confirm its growing popularity. Satisfied users are buying "THRU" again and again, and recommending it to fellow-sufferers.

New Large Size certain to be demanded

The new size contains 2½ times the quantity for less than double the price. More and more "THRU" is selling as repeat business, so satisfied users are certain to ask for this more economical pack.

With its rapidly increasing appeal, "THRU" is becoming a household word—be ready to meet the demand that is sure to follow the introduction of this 9/9 bottle.

Trade Terms:

	Ref.	List Price	Retail including 30% P.T.
"THRU", 2oz. Standard Bottle	D333	41'- doz.	5 9
"THRU", NEW 5oz. size	D334	66 - doz.	9 9

Mixed Parcels Carriage Paid £5 or over. Over £5 less 5%. Over £10 less 10%.

ORDER NOW!

Order supplies immediately either direct from Loughborough, or from your C. F. Wholesaler. Usual generous parcel discount terms available, as on all Rexall Specialities.



THRU

STANDARD SIZE 5/9

NEW, LARGE SIZE 9/9

REXALL DRUG COMPANY LIMITED · LOUGHBOROUGH · ENGLAND

ALSO AVAILABLE IN THE REPUBLIC OF IRELAND



Your Entrance is Their Entrance

for the

NATIONALLY ADVERTISED

FEEDRITE

Every Entry MEANS A SALE!

£2000

Plus BIG MONEY PRIZES FOR YOU!

COMPETITION

ONLY YOU can supply their Entry Forms — NOW AVAILABLE

FOR YOUR CUSTOMERS

1st Prize a family car, approx. value £850.

2nd Prize a Hi-Fi Radiogram, approx. value £150.

3rd Prize a branded Washing Machine with 5pin Dryer, approx. value £100.

4th Prize a Television set, approx. value £70.

5th Prize an Electric 5ewing Machine, approx. value of £50.

6th Prize Voucher for Linen to the value of £25.

And many "Fivers"

FOR YOU

TO THE CHEMI5T WITH THE WINNING ENTRY, £150 CASH.

" " A55I5TANT (OR A55I5TANTS) £50.

" " CHEMIST WITH 2nd PRIZE £50. AND A55I5TANT £25.

" " CHEMIST WITH 3rd PRIZE £35. AND A55ISTANT £15.

" " CHEMIST WITH 4th PRIZE £25. AND A5SISTANT £10.

" " CHEMI5T WITH 5th PRIZE £15. AND ASSI5TANT £5.

" " CHEMI5T WITH 6th PRIZE £7 10s. AND ASSISTANT £2 10s.

To the shop from which we receive the most Entry Forms, WINNING or NOT,

1st. PRIZE £100 2nd. PRIZE £50 3rd. PRIZE £25

FEEDRITE LTD. 300 Kingston Rd., Merton Park, London, S.W.20

Look what INNOXA is doing NOW!

½-pages in the SUNDAY EXPRESS

—seen by over 4,500,000 women!

This is the first —Appearing June 15th



most beautiful under the sun...

the Sun-Gilded Look



CREAM POWDER by INNOXA

Here's how to get your share of the business this ad. will bring.

1 See that your INNOXA STOCKS are AMPLE

2 Get your NEW SHOWCARDS ON DISPLAY — IN THE WINDOW and ON THE COUNTER

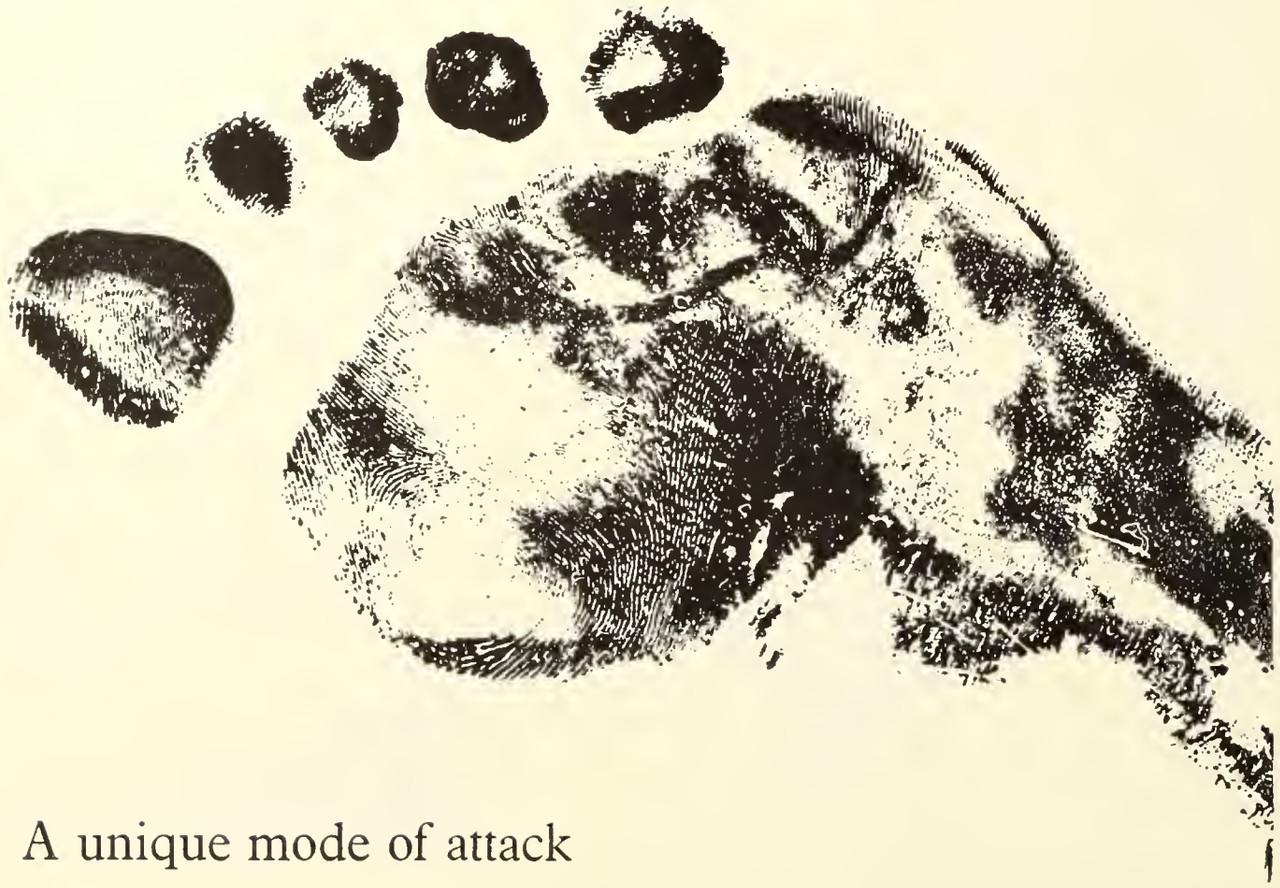
* They were specially designed to tie-in with this EXPRESS ½-PAGE and with FULL PAGES IN 'WOMAN' AND 'VOGUE'

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ATHLETE'S FOOT AND OTHER SUPERFICIAL MYCOTIC INFECTIONS



A unique mode of attack

'Glyped' Cream offers a new approach to the control of Athlete's Foot and other superficial dermatophytoses. It contains glyceryl triacetate, which provides effective antifungal therapy by means of a self-controlled enzyme action on the skin. Free fatty acid is released and maintained at a constant level within a pH range of the optimum therapeutic effect and this is non-irritating to the tissues even over long periods.

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'Glyped' Cream contains 25% glyceryl triacetate in an emollient cream base. Literature and further information are available on request.

* A.M.A. Arch. Dermatol (1956). 74. 73.

'Glyped' CREAM

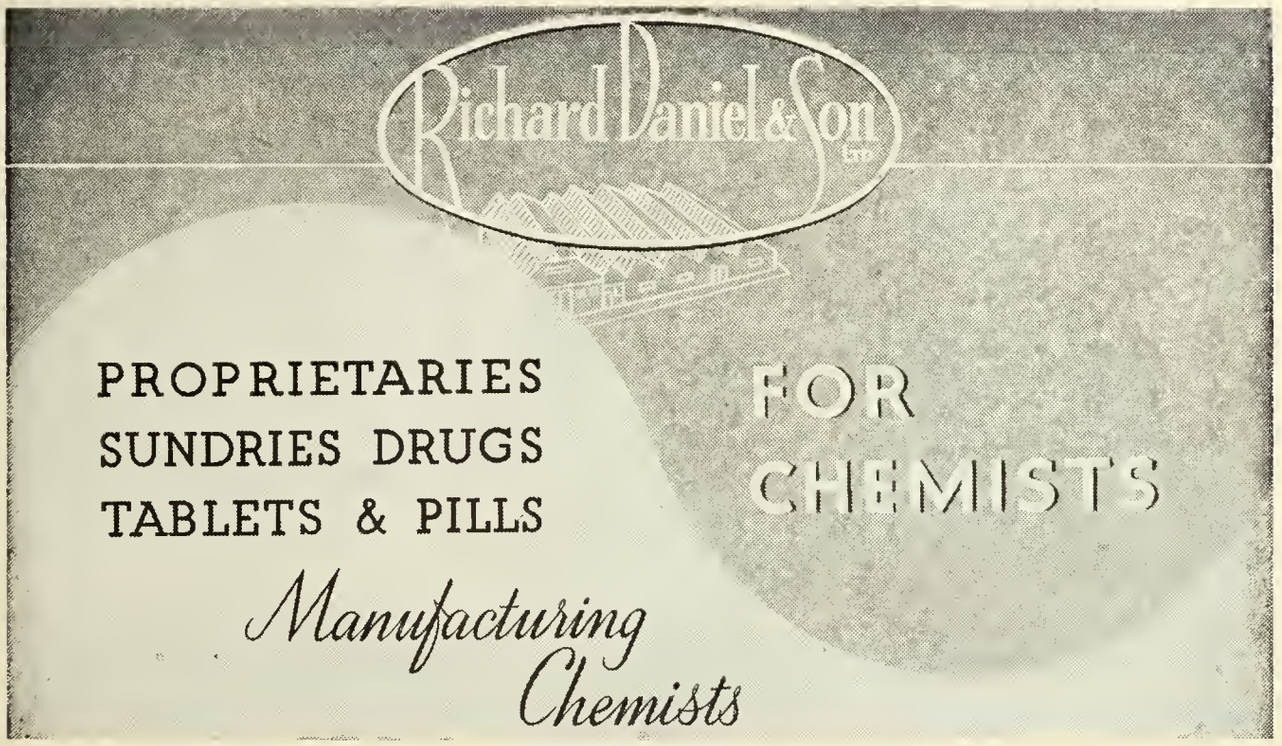
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Manufactured under licence from Wisconsin Alumni Research Foundation; patent applications pending.

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CASCARA BARK	RAW OPIUM
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Summer's the time for sales! Customers want a bright new razor to take on holiday. And they want a nice present at the right price to bring home. So take advantage of this demand . . . Gillette's Summer Promotion will boost *your* sales!

Here's the advertising they'll see July 4th—August 24th

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Blanket Coverage! Frequent repetition of spots on all stations at peak viewing times.

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And remember....
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You make over 5/-

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ISLEWORTH, Middx.

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ADDRESS .....

(*Use unsealed envelope, 2d stamp.*)

It's news...it's fashion...



it's Sapphire

YARDLEY Mascara

Available to you from today – Yardley ' Sapphire '– the latest shade in mascara. Retail price 7/9, refills 4/3



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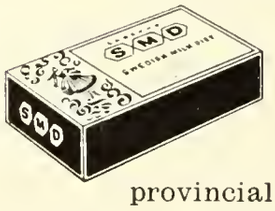
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The skin products with over 40 years experience behind them. Heavily advertised in the national press; large circulation women's magazines and on T.V.

2 LARSON'S Swedish Milk Diet



The new sensational vitamin fortified slimming food supplement that swept the market. Complete national and provincial advertising coverage—national and provincial press, women's magazines and T.V. A record profit maker for you.

3 WATE-ON for THIN, UNDERWEIGHT people



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4 NU-NALE – for Brittle Nails



Fast growing and fast selling nail strengthening products. Both liquid and cream sales soaring up. Also Nu-Moon for cuticles. Advertised in women's papers with a combined circulation of 12,222,055.

5 COSMEDIN Deep Cleansing Lotion



This quick cleansing range of lotions (one for normal skins one for dry skins) are heavily advertised in women's national magazines. A big sampling campaign is now in progress.

DENDRON DISTRIBUTORS LIMITED

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Newly blended...newly packed



Yardley Oatmeal Complexion Soap, containing lanolin and moisturising ingredients.

Specially to be recommended to people with sensitive skins. Available from today. Retail price, 2/4 a tablet.

YARDLEY Oatmeal Complexion Soap

The house of Woolley for all your requirements



PHARMACEUTICALS



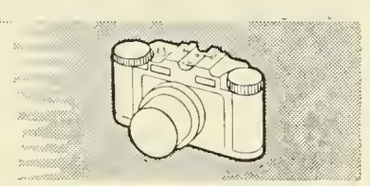
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W25A

More and more women are reading this TRESS advertising...

in the big circulation papers reaching **80% of women over 16**

Hair styles come so easily when you set with TRESS

...because Tress makes your hair follow your fingers



SPRINKLED ON YOUR HAIR after your usual shampoo, fragrantly perfumed TRESS immediately makes your hair so easy to manage that a new cleverness seems to come into your fingers. Perfect pin curls and flattering waves come with astonishing ease just how and where you want them.

Only TRESS will work these near miracles because only TRESS contains the wonderful new hair-nutrients discovered in the Laboratories of L'Oreal · Paris. It's these which give your hair its completely new, pliant, shining beauty, new vitality, a new readiness to follow your fingers.

*This lovely hairstyle was created by Pierre Lebreuilly of Paris, who always uses TRESS in his Salon.

Never just set your hair with water. It will eventually make it harsh and dry. Set with TRESS and your hair will become and remain in beautiful condition.

Your hair will look twice as lovely, twice as shining, and your style will stay in place, manageable and shapely, for twice the usual time



TRESS sets, curls and conditions your hair

Makes your set look twice as lovely for twice as long

A creation of L'OREAL · PARIS
The World's Greatest Makers of Hair Beauty Products

YOUNG women
HAIR CONSCIOUS women
WOMEN with money to spend

} **will all want to buy from you**



TRADE TERMS

Small Size Price 8/10 per dozen bottles plus 60% tax selling at 1/6½ per bottle.

Large Size Price 14/6 per dozen bottles plus 60% tax selling at 2/6½ per bottle.

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From your usual wholesaler or from: GOLDEN LIMITED, 7 Grosvenor Street, London, W.1. Hyde Park 1671

Republic of Ireland enquiries to: Lilmar, Pharmaceuticals Ltd., Santry, Dublin.



Sunshine and Warmth...

for people of all ages

So many people would feel all the better for the stimulating warmth and sunshine provided by Philips Health Lamps. For instance, when used on medical advice, these lamps are often remarkably successful in treating rheumatic complaints and debilitated conditions.



Philips Infra-red INFRAPHIL

Philips Infraphil was installed in the medical centres at the last two Olympic Games. It is most valuable in alleviating the pain of arthritis, rheumatism and muscle-strain. Infraphil Infra-red lamp (made in Holland) costs only **£3.3s.0d.** De-luxe model "A" **Price: £4.4s.0d.**



Philips Ultra-violet SUNLAMP

Philips Sunlamp gives the blessing of "Mountain sunshine". Doctors know the value of the right type of sunlight and do not hesitate to recommend the Philips Sunlamp. Ultra-violet Sunlamp (made in Holland) **Price: £5.17s.6d.**

A doctor's certificate must be presented when either of these lamps is purchased by the public.

PHILIPS ELECTRICAL LIMITED

ELECTRICAL APPLIANCES DIVISION

Century House, Shoftesbury Avenue, London, W.C.2

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If you don't want to be stuck with it...



make sure it's advertised in the Daily Mail

Nobody likes being stuck with a product that won't move off the shelves. That's why it's so important, when the salesman calls, to ask him this: '*Is the Daily Mail on the advertising schedule?*' It ought to be down there in black and white in that impressive looking folder he flashes at you. But make sure.

It's important. If the answer's Yes, you can stock up a new line quite happily. Because your best customers, the steady, dependable ones, your bread and butter trade, tend to be Daily Mail readers. You may have noticed it yourself.

If they see anything advertised in the Daily Mail, they know they can trust it. The Daily Mail vets its advertisements very carefully. And if a genuine complaint comes in about anything it advertises, the Daily Mail will *get the customer's money back*. Or make the refund itself. That sort of thing has built up a lot of confidence over the years.

So if you want your lines to move steadily, do make sure they're advertised in the Daily Mail.

YOUR BEST CUSTOMERS READ THE ***DAILY MAIL***



BROMIDES

For more than a century, Morsons have been making chemicals for industry and the pharmacist. The technical supremacy which comes from so long an experience is today an intangible but nonetheless invaluable element in every Morson product.

AMMONIUM BROMIDE B.P.C.

POTASSIUM BROMIDE B.P.

SODIUM BROMIDE B.P.

If you have a chemical problem, Morsons are at all times glad to place their knowledge and technical resources at your disposal.

THOMAS MORSON & SON LTD.

PONDERS END, MIDDLESEX

THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 169 June 7, 1958 No. 4085

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which includes The Chemist and Druggist Diary and Year Book, £2 10s. Single copies one shilling each.

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. . . to favour WRIGHT'S
COAL TAR SOAP



Recommend Wright's—you're following the fifty-year endorsement of the medical profession. *Sell* Wright's, easily—behind you, powerful consistent advertising and sales promotion. *Display* Wright's—colourful counter carton takes little room but does big selling job.

More Wright's coal tar soap is now being sold than at any time in fifty years solid selling!

The Golden Tablet in Bath and Toilet sizes



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Serpasil*
(Reserpine)

THE BASIC TREATMENT. PARTICULARLY EFFECTIVE IN MILD OR MODERATE CASES

Adelphane*
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FOR THOSE CASES SHOWING INADEQUATE RESPONSE TO SERPASIL ALONE

Serpatonil*
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INDICATED WHERE DROWSINESS OCCURS DURING RAUWOLFIA THERAPY

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Detailed information on any of these products is available on request.

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The CHEMIST AND DRUGGIST

Volume 169 JUNE 7, 1958 No. 4085

Pharmaceutical Society

RETIRING OFFICERS RE-ELECTED

AT a meeting of the Council of the Pharmaceutical Society of Great Britain on June 4, Mr. D. W. Hudson was re-elected to a second term of office as *President*.

Mr. G. H. Hughes was re-elected *Vice-president* and Mr. W. H. Howells *Treasurer*. Mr. F. C. Wells said that Mr. Howells had been treasurer of the Society for twelve years, the seeond longest time in the history of the Society that anyone had held that office.

Peebles Congress

DECISION TO CANCEL

THE Franco-British Pharmaceutical Commission announeed on June 2 that owing to the situation in Franee, it had been found necessary to cancel the Congress which was to have been held at Peebles, June 13–15. M. Laurent wrote: "It is with deep regret that I find myself compelled to cancel the fortheoming Pharmaeeutical Congress at Peebles. The question has been in our minds for the last week, but I was anxious to wait until the last moment before taking a final decision of such gravity. . . . I am having daily telephone messages from congressists telling me that they feel they must cancel their bookings because they do not wish to leave their pharmacies or their families. Indeed I ean see clearly that by taking this deeision I shall be helping a number of our eongressists who have avoided making this decision beeause they were afraid of making things difficult for us. You know, of course, that I would have liked to have told you earlier, but as you will understand we are not in control of the events whieh are unfolding at this moment. . . . We know one another too well for me not to feel that you will all understand the reasons that have led to this deeision. I would like you to be my spokesman to our eolleagues aeross the Channel and tell them how deep our regrets are." Payments made by British eongressists are being returned shortly.

Sydney Body Trust

MEDAL PRESENTATION AND LECTURE

THE Sydney Body gold medal and citation were awarded at Southend-on-Sea on May 30 to Mr. Rodney Maingot, F.R.C.S., for "high distinetion in the practiee and advancement of surgery." The ceremony took plaee at the Southend General Hospital, from which Mr. Maingot was relinquishing offiee as senior surgeon of the hospital group. Mr. G. Foster Taylor (chairman of the hospital management committee), who presided, said that Mr. Maingot was known throughout the world and espeeially in the United States and Australia. Tributes to him were paid by Dr. L. Gordon Hopkins and by his suecessor (Mr. Ronald Barlow, F.R.C.S.). Mr. S. F. Body, who personally presented the award, also unveiled the eitation, which reads: "For high distinction in the practice and advancement of surgery. He has attained world-wide reputation in the field of abdominal surgery which has brought great honour to our hospitals. He is famed for his authorship of surgieal books. This medal is awarded in recognition of his services." Mr. Maingot then delivered a lecture, illustrated by lantern slides, entitled "Surgery in Art." His illustrations proved that disease had been represented in the most ancient art, and that there was in all ages a common ground between the healing arts and the arts of drawing, painting and sculpture. A vote of thanks to Mr. Maingot was moved by Mr. T. Rowland Hill, M.D., F.R.C.P., and carried by aeelamation. Among those present was the mayor of Southend (Alderman B.S. Clarke, M.P.S.).

Dextromoramide

CLINICAL TRIALS IN PROGRESS

SINCE the promulgation of S.I., 1958, No. 767 (see *C. & D.*, May 17, p. 522), the British Pharmaeopœia Commission has issued an approved name for the chemieal 1(β-methyl-4-morpholino-2:2-diphenylbutyryl)-pyrrolidine, and its various forms will now be known as dextromoramide, levomoramide and racemoramide. Dextromoramide is being issued by M.C.P. Pure Drugs, Ltd., as M.C.P. 875 Palfium, but the eompany state that the small quantities now available are being alloeated to certain hospitals. Distribution is being extended as produetion increases, but supplies are not expeeted to be generally available for some time, and no priees have been fixed. Of the other compounds referred to in the statutory instrument, a notiee by the Home Office states that only etoxeridine, morpheridine and oxymorphone are expected to figure in the trade in this country.

Codex Amendment

ALTERATION TO B.P.C., 1954

THE Counеil of the Pharmaceutical Society of Great Britain has authorised the publication of the following amendment to the British Pharmaceutieal Codex 1954:—

PARAFFIN GAUZE DRESSING: p. 927. The bleached eloth to be impregnated with yellow soft paraffin in place of a mixture of balsam of Peru and yellow soft paraffin. Sterilisation. Amend to: It is sterilised by maintaining at 150° for one hour, or by any other suitable process.

The date on which the amendment takes effect is to be announeed later.

Photographic Dealers

RESULTS IN 1958 EXAMINATIONS

CHEMISTS' assistants figured prominently among the suceesses in the 1958 examinations of the Photographie Dealers' Association, aecounting for 60 per cent. of the total in the intermediate and for one of the three successes at advanced level. Their names and pharmacies are:—

ADVANCED EXAMINATION, PART I

HOWARD, M. (D. H. Shrive, Peterboro').

INTERMEDIATE EXAMINATION

With distinction, HAYMAN, Rex B. (Boots, Ltd., Horsham). Ordinary, ASHTON, John G. (G. Hinchcliffe, Ltd., Dukinfield); BAILEY, Raymond F. (C. N. Higgins (Chemist), Ltd., Salisbury); BANKS, Victor John (Marion (Chemists & Perfumers), Ltd., London, W.4); BROOK, Gordon V. (J. Allen Jones, Ltd., Liverpool); CLARKE, Robert H. (Boots, Ltd., Liverpool); COUGHLAN, Barrie (Frith Bros., Richmond, Surrey); CURTIS, Rex E. (Boots, Ltd.,



BOWLERS AT BELFAST: Mr. S. T. McIlroy (captain) measures a shot in the Ulster Chemists' Bowling Association's annual tournament played at Belfast green recently. Also in the picture are Messrs. J. Caldwell (secretary), R. A. Johnston (member of committee), and J. Wellwood (vice-chairman).

Aldershot); DAVIES, Ronald (Frith Bros., Richmond, Surrey); ELSBURY, David J. (Victor Latty Ltd., Bristol); FIRTH, Leonard E. (Boots, Ltd., Bradford); HODGE, Robert T. (H. W. Herbert, Ltd., Horley, Surrey); JONES, Ramon J. (Frith Bros., Twickenham, Middlesex); MACLEAN, Ella (A. Laird Parker, Oban); MILLARD, Derek (Boots, Ltd., Southsea); MITCHELL, David F. (Boots, Ltd., Dunfermline); SHAW, David J. (Boots, Ltd., Hanley, Stoke-on-Trent); SMITH, Brian W. F. (Timothy Whites Wholesale, Ltd., London, S.W.1); WALKER, John E. (Boots, Ltd., Nottingham); WALTER, Cecil M. (A. H. Hobbs, Bath); WATSON, Geoffrey W. (Boots, Ltd., Dagenham, Essex).

Chemists Federation

SUCCESSFUL LIVERPOOL MEETING

A NUMBER of young pharmacists were complimented by Mr. Farrer-Barnes (chairman) at a meeting of the Chemists Federation in Liverpool on May 19 for the willingness with which they were taking an active part in the work of the Federation. Liverpool, he said, had long been associated with the Chemists Federation, having provided two past-presidents (Mr. Ian Fergusson, chairman, Evans Medical Supplies, Ltd., and Mr. W. J. Tristram) and also the 1958 president, Mr. Frank E. Mellor. Mr. Allen Aldington (a member of the C.F. Council) addressed one of the largest C.F. meetings held in Liverpool for a number of years.

Export Control

ALL BOTANICALS NOW FREED

A NUMBER of changes in export licensing control came into force on May 24 with the issue by the Board of Trade of Export of Goods (Control) (Amendment) Order, 1958 (S.I., 1958, No. 844). From that date licences will not be required for the export of (among other things):—Balsam Peru, Balsam tolu, cascara, ipecacuanha, senega, resin, certain waxes, bismuth, selenium and naphthenic acid.

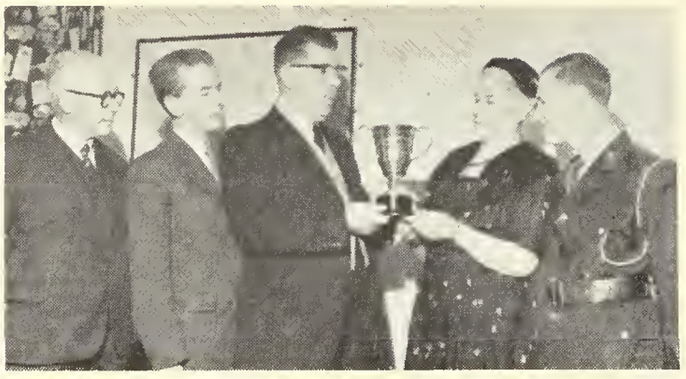
IRISH NEWS

THE NORTH

Training in Cosmetics

U.C.A. SCHEME

IN connection with the Ulster Chemists' Association's scheme for training in cosmetics, an instructive illustrated lecture was given by Dr. J. Martin Beare at the Institute of Clinical Science, Belfast, on May 27. Mr. A. Templeton (President, U.C.A.), said that for a long time he had felt that since cosmetics and the toilet business occupied so much of a pharmacist's time, assistants should have some training. At the annual meeting of the associates' section he had suggested that the associates should do something about it. That had resulted in a joint subcommittee being formed of members drawn from the Executive Committee and the Associates' Committee, who had considered the matter very thoroughly and had arranged for the introductory lecture. Miss C. B. Abernethy (convener of the subcommittee), who presided, introduced the lecturer. A vote of thanks to the speaker was proposed by Miss N. Robinson and seconded by Mr. G. E. McIlhagger (President of the Pharmaceutical Society of Northern Ireland).



PHARMACISTS PRESENT A CUP: A cup to be known as "the pharmacy cup" was recently presented by the pharmacists of county Dublin, Eire, to the Irish Red Cross Society "in memory of Mr. Frank McGrath, a former president of the Pharmaceutical Society of Ireland." Mr. Maurice Power (president of the P.S.I.) is seen handing over the cup to Mrs. M. E. Hackett (vice-president of the Central council of the Red Cross), with whom is Dr. R. Spelman (county medical director of the Red Cross). With Mr. Power are Messrs. G. C. O'Neill, Blackrock, and B. P. Hickey, two county Dublin pharmacists actively associated with the Red Cross in the county. The cup will be competed for by men's teams of the Red Cross in county Dublin.

THE REPUBLIC

Dispensary System

"ABOLISH" PLEA IN DAIL

THE utilisation of pharmacies in the Republic to replace the present dispensary system was referred to by Deputy Frank Loughman in the Dail recently during the debate on the Health Vote. Deputy Loughman (a member of Council of the Pharmaceutical Society of Ireland) at the outset of his speech refuted the suggestion of another deputy that patients in the private wards of hospitals received better treatment than those in the public wards. Deputy Loughman said that from his experience as a compounder of medicines at a very big hospital the poorest persons had available to them the best drug possible for their illness. He had never seen any discrimination between those in the public ward and those in private wards. "I should like," went on Deputy Loughman, "to support the plea made by Deputy T. F. O'Higgins, the former Minister of Health, for an examination of the dispensary service in this country and, if possible, to have an experiment with a new system. He told us that he felt that, since we had established the choice of doctor in the case of the mother and child service, we might easily expand it to the dispensary patient. . . . It is a fact that many dispensary patients are compelled to go to a particular doctor when they would much prefer and have greater confidence in some other doctor. . . . I should like to point out that, while hospitalisation has advanced to an enormous extent our dispensary service has not advanced at anything like the same rate. . . . I believe that if, as well as giving the dispensary patient a choice of doctor, they also gave to the patient the choice of a pharmacist, they could safely abolish the dispensary as it exists at the present without the State's incurring any grievous loss. I believe that if the cost of the compounder, the cost of the place in which he does his compounding, the heating and maintenance of that place, and so on, were deducted from the total cost of the dispensaries, it would be found that a very considerable profit would be available which would make it worth the while of the chemist to undertake that work."

Study Group Success

END OF 1957-58 SESSION

AT a function which marked the conclusion of a course of seven lectures on "The Chemistry of Organic Substances" on May 23, Mr. Gerald C. O'Neill represented the Council of the Pharmaceutical Society of Ireland. The course, which was the third of such courses held by the session under the auspices of the post-graduate study group, was conducted by Dr. Richard F. Timoney, Dean of the College of Pharmacy. In congratulating the chairman of the group (Mr. Donald W. P. Boyd) and the Post-graduate Committee on their achievement, Mr. O'Neill stated that the Council of the Society had been most enthusiastic about all that the group had done for Irish pharmacy during the past three years. The subject of the course just concluded was of the greatest importance to every pharmacist and was one in which he should be particularly well qualified to offer guidance to the medical man. Mr. Boyd, in thanking Mr. O'Neill for his appreciative remarks, said that he felt that the time had come for a greater measure of co-operation between his committee and those who planned the normal courses of instruction for the Society's students, to co-ordinate educational policy and ensure continuity.

IRISH BREVITIES

THE annual Communion Breakfast of the Pharmacy Branch of the St. Joseph's Young Priests' Society is being held on June 15. Mass will be celebrated at the Dominican Oratory, St. Saviour's Church, Dominic Street, at 8.30 a.m. and the Communion Breakfast will follow at Barry's hotel. Those wishing to attend are requested to notify the Secretary, Pharmacy Branch, St. Joseph's Young Priests' Society, 23 Merrion Square, Dublin, as soon as possible.

A NEW pharmacy is shortly being opened in Kincora Avenue, Clontarf, Dublin, by Miss Una C. O'Connor, L.P.S.I. The pharmacy is located in the centre of the newly developed Castle Estate area of Clontarf, one of the latest north side suburban extensions in North Dublin.

NEWS IN BRIEF

In the new town centre being built at Stevenage, Herts, there will be two pharmacies, those of Selby & Taylor at 25 Market Place and of Boots, Ltd., at 43 Queensway.

The Treasury has made an Order published as S.I., 1958, No. 870, effective June 2, exempting certain botanical drugs from import duty. Particulars are on p. 621.

The pharmacy of Mr. J. E. Michaelson, F.P.S., 34 Angel Lane, Stratford, London, E.15, which was broken into recently (see *C. & D.*, May 3, 1958, p. 471) has suffered a second burglary.

The Minister of Health (Mr. Derek Walker-Smith) has made the following appointments to the Standing Pharmaceutical Advisory Committees for the period ending March 31, 1961:—New Appointments, Dr. A. M. G. Campbell, Messrs. D. E. Sparshott and B. J. Thomas. Re-appointments, Messrs. J. B. Hough and H. Noble and Alderman W. J. Tristram.

The Manchester Branch of the Guild of Public Pharmacists enjoyed the hospitality of Boots, Ltd., Nottingham, on May 20 and 21 when they were shown the biology division, the antibiotics and fermentation division, the chemical department, the sterile products department and the pharmaceutical factories. The members were impressed by the good "housekeeping" especially of the corticosteroid division.

Three British scientists are among those to receive from the United States the John Scott 1958 awards for useful invention. Dr. A. J. P. Martin received his award for inventions in chromatography. Mr. B. Adams and Mr. E. Holmes found a way of making hard water soft and sea water drinkable. Their invention of ion-exchange resins can be used also in the production of streptomycin and in the extraction of uranium.

SPORT

Bowls.—Ulster Chemists' Bowling Association held its ninth annual bowling tournament, organised by Mr. J. Caldwell (secretary and treasurer) in aid of the Northern Ireland Chemists' Benevolent Fund, on May 28, at the Belfast Bowling Green. Ulster Chemists' Cup: 1, G. P. Taylor; 2, C. L. Gordon-Rattie; 3, R. Saunderson; 4, J. C. Acheson and S. Marks (tie); consolation, J. A. McRoberts. Visitors' Section, 1, J. Steen; 2, T. A. Ross; 3, J. Craig and N. Lytle (tie); 4, J. Burne; consolation, R. Reid. The prizes were presented by Mrs. S. T. McIlroy, wife of the Captain. Mr. S. T. McIlroy, on behalf of the Ulster Chemists' Association Bowlers, expressed thanks to the President and Committee of the Belfast Bowling Club for the use of the green, to the donors of prizes, to the ladies of the Club for preparing tea, and to Mr. J. Caldwell for his excellent organisation of the event.

Golf.—Liverpool Chemists' Golfing Society at Woolton Golf Club, on May 21. Division A. *Allenbury cup and prize*, S. G. Bourns (69); *Reckitt's prize*, J. Ball (72). Division B. *First prize*, Dr. I. G. Watchman (75); *Meggeson prize*, M. Whitaker (77); *Ronson prize*, H. Cottle (78).

LOCAL OFFICERS

PHARMACEUTICAL SOCIETY

Finchley.—*Chairman*, Leonard V. Melhuish; *Vice-chairman*, A. King; *Hon. Vice-chairman*, Miss Winifred Atwell; *Secretary*, J. C. Bolton, 75 Twyford Avenue, N.2; *Treasurer*, H. J. Shore.

TOPICAL REFLECTIONS

By Xrayser

Bureau of Locums

After a prolonged winter, rendered still more arduous by the visitation of an influenza epidemic believed to be Asiatic in origin, it is highly desirable that the pharmacist should have a break in his routine. (By "routine," of course, one refers to the physical attendance during fixed hours at the pharmacy—the word scarcely applies to the infinite variety of products handled from day to day.) Happy is the man who is in a position to call on the services of the same locum from year to year—happy and fortunate. For those not so well placed, the scheme sponsored by Redhill and Reigate branch of the Pharmaceutical Society (p. 573) is deserving of wholehearted support. The decision to institute a "locums bureau" in the branch area is one that might well appeal to other districts. The smooth running of such a scheme will necessarily involve branch secretaries in additional work, and the natural outcome would almost certainly be the keeping of a register with the times during which such part-time locums are available. If that is to be the ultimate pattern, the success of the effort depends on the most complete co-operation of those taking part. Immediate notification to the secretary of the booking of any engagement is the only way to ensure an efficient list. There is nothing more likely to bring about a frustration of the good intentions and hard work of the organisers than a list on which no reliance can be placed because of the failure of those taking part to supply immediate notification of engagements. A postcard dropped in a letter box is all that is necessary.

Edinburgh Pharmacopœias

Annual meetings tend to be mundane in character, and chairmen are prone to devote their time at such meetings to reviewing the work of the session just closing. A departure from normal practice was made at the annual meeting of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society, when the chairman (Mr. C. G. Drummond) took the opportunity to review the Edinburgh Pharmacopœia of 1735. The first edition of that work was published in 1699, and the last in 1841, between which dates twelve editions were issued. Not until the last two did the authors unbend sufficiently to print in English. With the publication of the first British Pharmacopœia in 1864, the need for a separate Edinburgh one disappeared, and in that same year London and Dublin merged their own pharmacopœias in a national one. Greater ease of travel made it possible and desirable to have uniformity. The speaker, while mentioning the quaintness of certain of the animal materia medica, was right to draw attention to drugs such as digitalis, ipecacuanha, squill and valerian, which still hold a place in the physician's armamentarium, and it may be, as he suggested, that much of what was used in 1735 should be subject to a new evaluation in the light of present-day scientific methods. The recent intimation that the Pharmaceutical Society is to restore its materia-medica museum at Bloomsbury Square may be a first step in that direction.

Financing the Arts

The arts have suffered throughout history from lack of money. Any patronage forthcoming for the struggling composer, for example, was usually at the hands of a wealthy individual, but for whom some of our best-loved music would never have been written. That is not to suggest that all were as fortunate as Haydn, who, at the age of twenty-seven found himself, after years of grinding poverty, reasonably well provided for by Prince Esterhazy. Unlike continental European countries, British governments have been singularly reluctant to encourage the arts, and survival may take the form foreshadowed by the announcement (p. 581) that the Regent's Park open-air theatre is to receive generous help from a well-known firm of manufacturers. It is to be hoped that the weather this summer will smile on public and performers who doubtless have long since learned what it is that "good mornings" begin with.

A DOUBLY HISTORIC OCCASION

Evans medals presented at Apothecaries' Hall

PROBABLY for the first time in the history of the Society of Apothecaries a meeting of organised pharmacists took place at its London headquarters on May 31. The occasion was the annual meeting of the Guild of Public Pharmacists, at which also the first Evans gold medals were presented to Mrs. Mees (the award was posthumous to her husband, the late Mr. A. M. Mees, a former chairman and treasurer of the Guild), and Mr. F. H. Newman (on the occasion of his retirement after thirty-seven years in the pharmacy department of University College Hospital, London).

Miss E. P. Button (chairman of the Guild) presided. MISS BUTTON commented on the "popular and fitting" choice of recipients of the medal, and introduced MR. C. W. ROBINSON (a director of Evans Medical Supplies, Ltd.), who made the presentation. Mr. Robinson said that though he must be regarded, "and perhaps even suspect," as a commercial man, the occasion was one on which he felt strongly the unity of purpose that underlay—or should underlie—the efforts of all privileged to call themselves pharmacists. "We are all of us bound by our training, and by the professional conscience which it develops, to abide by certain standards of conduct in the common interest of the patient, his doctor, and our own self-interest and self-respect." Pharmacy, like medicine, was by no means an exact science, and the boundary between science and non-science was often tenuous. It was in that realm of inexactitude and half truth that temptations to cupidity most strongly existed. There, too, the professional conscience could often be the only arbiter between right and wrong. The stability of the profession must continue to rest, as it had been built, upon the quest for truth and fair dealing. The long-term interests of industry and of the profession in this country were dependent upon one another, and it was in order to give visible recognition of that interdependence and to keep the name of Evans before them in a way that was, he thought, not unworthy, that his company desired to make the gesture of that annual presentation. The company thought that it would be wrong for them to play any part in the annual selection of recipients. "But now that you have made your first choice may I be permitted to say how happy we are that the selection has been made so fittingly as it has today."

Mr. Newman, after receiving the medal, entertained his fellow members with reminiscences of his long period in hospital pharmacy (see p. 612).

Symposium on Pyrogens

There followed a symposium on pyrogens opened by Messrs. C. H. Sykes (chief pharmacist, London Hospital) and T. D. Whittet (chief pharmacist, University College Hospital). MR. SYKES spoke of the importance of careful handling of the material in keeping solutions sterile, and stressed the importance of guidance to the newly qualified in such matters as not leaving distilled water about in which pyrogenicity might develop.



Obverse and reverse of the Evans gold medal, donated to the Guild of Public Pharmacists for annual award. The inscription reads: "Presented to ..... on the recommendation of the Council of the Guild of Public Pharmacists for outstanding contributions to Pharmacy in the Public Service."

Under the title "Practical Aspects of Pyrogen Tests," MR. WHITTET said that because serious pyrogenic reactions were comparatively rare, there was a tendency in some quarters to assume that the risk was negligible. That was emphatically not the case. Apyrogenic solutions could be prepared with relatively simple apparatus in any well-equipped pharmacy if adequate precautions were taken and a good, well-baffled still and pure drugs were available, but any carelessness or relaxation of essential precautions would soon lead to serious trouble. The fact that so few reactions were reported was a tribute to the skill and care exercised by pharmacists in the preparation of intravenous infusion fluids. Recording the results of routine tests on solutions made in the hospital pharmacy, Mr. Whittet said that many such preparations had been tested, but none had been found pyrogenic. Investigations on several preparations alleged to have caused pyrogenic reactions in patients had shown most of them to be due to some fault in technique on the wards. A sample of distilled water from a stainless steel storage tank in the manufacturing laboratory was found to be strongly pyrogenic. Water was distilled direct into the tank from the still and its only apertures were the tube from the still, an air inlet with a filter attached, and the tap for withdrawing water; the tank, moreover, was flushed out with steam every three months. A 5 per cent. solution of dextrose made from a sample found dirty and having foreign matter present proved apyrogenic, but a bottle of physiological saline solution, which had produced a severe rigor in a patient in another hospital, was confirmed to be highly pyrogenic. Later it had been learned that the bottle had been opened by a nurse, a little of the injection used, and the remainder set aside and used a few days later.

An organism of the pseudomonas group, isolated from a sample of blood which had caused a fatal reaction in a patient, was found not pyrogenic but highly lethal.

A dextrose injection sent to the speaker by a hospital pharmacist had been opened for the addition of 25 units of corticotrophin per 100 mils. The solution had then been immediately infused through the standard infusion set, but the patient had developed a severe rigor. The sample as received contained a copious black deposit. Tests showed that it was highly pyrogenic. The sample was cultured at the Institute of Mycology and the moulds *Pulularia pullulans* and *Geofrithium candidum* were identified, together with numerous Gram-negative organisms. Those organisms were much more likely than the moulds, said Mr. Whittet, to have caused the pyrogenic reaction. An unopened sample from the same batch easily passed the British Pharmacopœia test. It seemed most unlikely that the batch as a whole was contaminated during preparation. The infusion set might be incriminated.

Antihistamines as Inhibitors

Several workers in America had reported that the addition of various antihistamine drugs to blood for transfusion would minimise or eliminate both allergic and pyrogenic reactions. His own experiments in rabbits had shown that some antihistamine drugs were powerful antipyretics but that others had virtually no antipyretic action. Promethazine was both hypothermic and antipyretic, but mepyramine was virtually without hypothermic effect but had an appreciable antipyretic action, diphenhydramine a slight hypothermic but practically no antipyretic action.

Tests with columns of ion-exchange resins had shown that it was possible to

produce pyrogen-free deionised water from strongly pyrogenic tap water and to remove large quantities of purified pyrogens from solution by means of certain ion-exchange resins. As yet, however, deionised-water plants could not be relied upon always to give pyrogen-free water.

Mr. Whittet ended by offering to assist other pharmacists in investigating (though not on a routine basis) the pyrogenicity of solutions believed incriminated.

Discussion

MR. H. S. GRAINGER (Westminster Hospital) made the point that, in a warm atmosphere, deterioration of a sterile solution or sterile water could take place very rapidly. Pharmacists tended to accept responsibility for any medicament that went wrong, and it was important that each batch of a product should be given an identifying mark. If the remainder of a batch proved satisfactory, there was *prima-facie* evidence that the trouble had arisen at a later stage.

Some discussion took place on whether the brushing of ampoules and other glassware to render them clean was good or bad practice, and it was evident that there were two points of view on the question, some holding that brushing was apt to destroy the "skin" of the glass.

At the annual meeting of the Guild, which followed, changes were made to the rules in order to permit alterations to the system of electing ordinary members of the Guild Council. Agreement was also reached on a proposal to vary the date of the annual meeting (thus making possible a combined week-end school and annual meeting at Nottingham in 1959).

The election to the Council resulted in the following membership:—*Ordinary:* Misses Button, Hirst and Islip, and Messrs. Fowler, Grainger, Mott, Powlson, Raine, Preston-Robinson and W. G. Smith. *District:* Messrs. Fish, Fitchett, Gibbor, Hindmarsh, Morrison, B. H. Smith and D. F. Smith.

CONGRESS OF CHEMISTRY AT TURIN

Joint event of the Italian Chemical Society and Society of Chemical Industry

ARRANGED jointly by the Italian Chemical Society and Society of Chemical Industry, the Eighth National Congress of Chemistry, Turin, May 27–31, was organised in twenty-seven sections, including sections on pharmaceutical, therapeutic, analytical, physical, biological and organic chemistry.

During the congress, some of the members from Great Britain were honoured with Italian decorations and awards. Messrs. Julian Leonard and L. E. Streatfield were each made a *Commendatore di Merito* (approximately equivalent to C.B.E.). The Italian Society's Raffaele Piria gold medal was awarded to Sir William Ogg and the *Stanislao Cannizzaro* medal to Sir Alexander Todd. Sir Charles Dodds and Professor E. B. Chain were made honorary members of the Society and Sir Charles Dodds was also awarded the honorary D.Sc. degree of Bologna University (reputed the oldest in Europe). For that distinction he was called upon in return to give a one-hour dissertation in French, and described it as "the longest hour of my life." With the degree went a handsome academic costume.

Plenary Session

At the plenary session of the Congress a lecture on tranquillising drugs was given by PROFESSOR DANIELE BOVET (a Nobel prizewinner). Professor Bovet said that the tranquilliser era had been inaugurated by the introduction of chlorpromazine and reserpine in 1953 and of meprobamate in 1954. Those discoveries arose from work on the antihistamines, antiparkinsonian drugs, hypertensives and muscle relaxants. The lecturer classified the tranquillisers into four chemical groups. The phenothiazine derivatives had been described by Gilman in 1944 and prepared almost simultaneously by Charpentier. Systematic pharmacological research upon them had mainly been carried out by the Rhône-Poulenc organisation. The sedative action of *Rauwolfia serpentina* had been known for centuries, but only in 1931 had the Indian chemists Siddiqui and Siddiqui isolated a crystalline alkaloid ajmaline. Since then twenty other rauwolfia alkaloids had been found, the most interesting—reserpine—by Muller, Schlitter and Bein in 1953. The muscle-relaxant drugs had received attention after the publication by Berger and Bradley in 1947 and 1949 of their work on mephenesine. A number of the diphenylmethane derivatives had recently been shown to possess anti-emetic activity and to be useful as tranquillisers.

Pharmacological screening tests were divided into tests of behaviour in the normal animal: tests of synergism and antagonism; tests of conditioned behaviour; and electro physiological tests. In its simplest form the behaviour test consisted in observing the symptoms provoked in small mammals by the injection of tranquillisers. Tests in the second group consisted in first observing the phenomena manifested after simultaneous administration to the same animal of a tranquilliser and a hypnotic or analgesic, and secondly of determining the antagonism between the tranquilliser and a central excitant such as amphetamine. Tests of conditioned behaviour were carried out on rats, using modified "pole-climbing response" and "lever-pressing response" techniques. The hypothesis that the particular type of sedative action of the phenothiazine derivatives and reserpine could be referred to a depressing action on the reticular formation of the brain stem had been supported by a great deal of research. It had been shown that two groups of substances could be distinguished: the "synchronisers" and the "desynchronisers." In the classification of the psychotherapeutic drugs a suitable nomenclature had been suggested. There were "neuroleptics" (e.g. reserpine and chlorpromazine); "antiphobics" (e.g. benactyzine); "central relaxants" (e.g. meprobamate); and "ataractics" (e.g. azacyclonol and hydroxyzine).

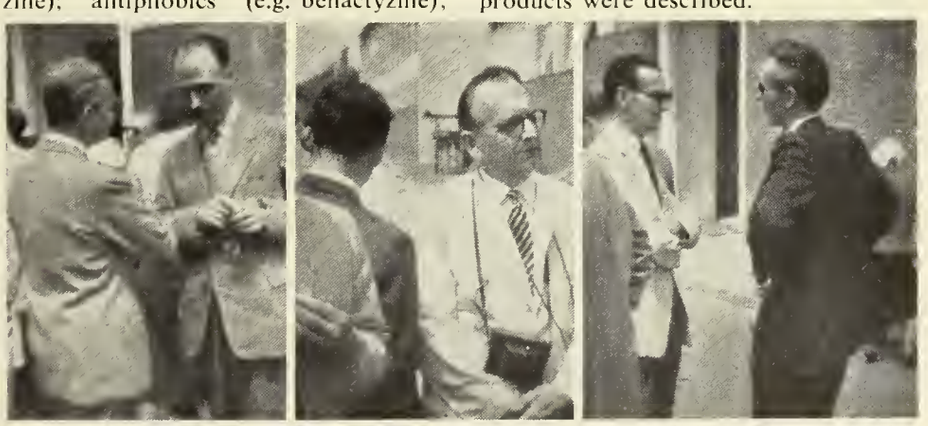
The lecturer concluded by claiming that therapeutic chemistry had today arrived at the possibility of overcoming obsessions and hallucinations. In 1956 more than thirty-four million prescriptions had been given for tranquillisers, and in that year also for the first time there had been a decrease of 7,000 in the number of patients in psychiatric clinics. In France, a report published in 1956 recorded that the time of confinement in a psychiatric clinic had been reduced from 122 days to ninety-five days after the use of electric shock, and to fifty-nine days after the introduction of tranquillisers.

Pharmaceutical Chemistry

Papers presented at the section on pharmaceutical chemistry included one on esters having a structure similar to that of diethylaminoethyl n-propyl-1-diphenyl acetate (SKF 525A), a compound having a significant action on drugs acting on both the central and peripheral nervous systems, and describing a number of related compounds.

Another paper dealt with etruscomycin, a new antibiotic produced by deep fermentation of a strain of *S. lucensis* and understood to have amphoteric characteristics.

In a paper on the dialkylaminoethyl esters of substituted phenylacetic and phenyl-α-butyric acids, the relationships between chemical structure and pharmacological activity of twenty-five new products were described.



CONGRESS VISITORS: Some of the members of the Society of Chemical Industry who attended the Eighth National Congress of Chemistry in Turin, Italy, May 27-31.

Two papers described the syntheses of 4-allyl and 4-chlor-9α-fluoro steroids, and another paper recorded further work on the total synthesis of œstrone. In a paper on triazoanthracene and phenanthrene derivatives, the authors stated that some of the products they had obtained had a structure analogous to that of acridine.

The *International Pharmacopœia* procedure for determining alkaloids in aconite came under criticism from another contributor, who suggested modifications to make the method easier, quicker and more accurate.

In a study of the relationship between chemical structure and sweet flavour, its authors described a number of derivatives of p-ethoxyphenyl carbazide and their "exceptional" sweetness.

The first paper in the section on analytical chemistry dealt with a polarographic estimation of tubocurarine in pharmaceutical specialities, a method based on nitrating and then reducing and claimed to give accurate assays.

Three authors from the *Istituto Superiore di Sanità*, Rome, described an improved method for determining penicillin—a modification of the hydroxylamine-assay method giving results accurate to ± 5 per cent. and suitable for routine analysis.

Calorimetric Determinations

A calorimetric method for the identification and determination of promazine, either alone or in mixtures, was described, as was, in another paper, a method giving good separation of morphine, codeine, papaverine, narceine and thebaine within fifteen minutes by alumina-plate chromatography. A calorimetric method was described for determining testosterone.

A paper presented at the physical chemistry section describing the denaturing of serum proteins and lipoproteins, and described modifications resulting from heating proteins in the presence of certain polyhydric alcohols. The authors claimed the presence in the denatured sera of a major component "C" and two minor components. Not all the serum protein and lipoprotein, they found, took part in the formation of compound "C."

An American author described a number of processes for the manufacture of synthetic lysine. In studies of its use as food supplement in multi-generation rat-feeding tests, results showed that the benefits were maintained with no harm to the animal when the synthetic lysine was used over many life spans.

New ganglionic-blocking agents were listed in a paper by a member of the staff of the Beecham Research Laboratories. The paper listed seventy-five members of a new series of analogues of bis-quaternary ammonium compounds, many of them stated to possess high ganglionic-blocking activity.

In an examination of new quinolylthioethers with antifungal activity, the two authors of another paper recorded a number having outstanding activity.

AN IRRADIATION SERVICE FOR INDUSTRY

Facilities available at a new laboratory at Manchester

A NEW irradiation laboratory, from which is being offered a new and unique service to industry, was opened by the managing director (Mr. Harry West) of Metropolitan-Vickers Electrical Engineering Co., Ltd., Manchester, on May 29. The company has been responsible for basic research leading to the construction of linear particle accelerators, and was also responsible for the world's first hospital installation of such a machine (at Hammersmith in 1953) on behalf of the Medical Research Council. As with later installations at other hospitals, the installation provides the most modern radiotherapy treatment for cancer. The machine also has applications in industry.

The travelling-wave linear accelerator is a device whereby a stream of particles, travelling in a hollow wave guide, are accelerated by a radio frequency field. In mathematical terms, an electrically charged particle (e) travelling between two electrodes with a potential difference (V), acquires electrical energy equal to the combination (eV). The electrical energy is manifested by an acceleration to a speed approaching that of light. The apparatus in which that is done requires high-energy sources. It is arranged to provide up to 500 pulses per second. The wave guide is only about 1 metre in length, and in fact the whole machine occupies only part of a small room. A necessary control panel is situated in an adjacent room, and an *x*-ray head protrudes through a wall into an irradiation chamber. That chamber has a horse-shoe-shaped central core, made of concrete and occupying almost the total floor space. A narrow corridor that allows access to the plant runs between the central core of concrete and the 4-ft.-thick concrete walls. A thick steel sliding door covers the inside of the normal door when irradiation is in progress. Electrical circuits connected to the accelerator seal the chamber during irradiation, and a work table capable of modification to the requirements of different products is situated in front of the *x*-ray head. An endless belt, suspended from a rail, encircles the main concrete core, thus making it possible to arrange batch runs for suitable products.

Industrial Applications

The linear accelerator, one of three irradiation sources, the others being isotopes or waste fission products from nuclear reactors, may be described as a source of highly concentrated, focused *x*-rays. One function of which it is capable is the sterilising of pharmaceutical products; others are the sterilising and preservation of foodstuffs; the hardening of plastics and silicone rubbers; the "tailoring" of the dextran molecule to duplicate almost exactly the properties of plasma; the disinfestation of stored grains and cereals; prevention of budding in seeds; and the production from pure rubber of foam-rubber. Before industry can take advantage of the apparatus a certain amount of investigation in research and development is essential, and that, with, if necessary, production facilities, is available under the new service. Facilities are being provided for instruction in using the apparatus and in the basic health hazards that might arise. In the United States production experience has already been gained, and large-scale sterilisation of, for example, sutures, has been established upon a permanent basis (see *C. & D.*, April 12, p. 404). That example aptly illustrates the value of the process in sterilising thermolabile substances. Dextran manufacture in the United States takes advantage of the polymerising effect of irradiation. The collision of accelerated particles with the electrons of carbon atom produces a state of excitation during which double-bonds may be broken and cross-linkages effected between neighbouring molecules. Precisely the same effect occurs with plastics, producing increased toughness, widening the applications of the material and ensuring improved durability.

The technique of sterilisation by irradiation has been referred to as cold sterilisation, since ionising radiations sufficient to kill bacteria produce at most a rise in temperature of a few degrees.

Miller irradiated penicillin and achieved sterility with no apparent untoward effect. Insulin, however, though sterilised, has been found to lose a certain proportion of its original potency. The loss of potency has not been explained, but it is reasonable to suppose that the polymerisation, double-bond breakage and cross-linking of molecules, already recognised in the modification of plastics, may provide an answer, and it may not be unreasonable to expect that a large number of the drugs and chemicals at present administereed parenterally will lend themselves to the process. One advantage is that it is capable of being applied on a large scale, and at a low cost.

Existing installations give some indication of maintenance costs. The most expensive installation at present in use costs about £1,000 a year or £2 an hour of actual running time (valve replacements are the main source of the expense). The hire charge of £50 for an eight-hour working day for the 4 MeV 600-watt linear accelerator may be converted to production terms of lb./hour capacity. Assuming bulk sterilisation with an 80 per cent. utilisation, the capacity of the machine represents 192 lb. at a cost of 7½d. per lb. The processing of phials is estimated at 10s. per lb., based upon a throughput of 24 lb. per hour.

OVERSEAS VISIT

MR. R. GORDON ARCHER (managing director, C. F. Gerhardt, Ltd., and Huffer & Smith, Ltd.), accompanied by Mrs. Archer, returned recently from New York. Mr. Archer had been visiting the United States on business and in particular had discussions with S. B. Penick & Co., New York, with regard to American botanical drug possibilities for the coming season.

LEGAL REPORT

Pethidine on Forged Prescription

MRS. Mary Frances Bond, formerly of Derby, and now living at Maida Vale, London, pleaded guilty to obtaining, with intent to defraud, forty-eight pethidine tablets and a tube of Drapoline cream from Mr. James E. Thurman, M.P.S., 22 Osmaston Road, Derby, by means of a forged National Health prescription form, and with being in unlawful possession of a Dangerous Drug. Mrs. Bond, who was convicted and discharged on payment of 30s. costs, asked for two similar cases to be taken into consideration. Mr. Thurman, who said he became suspicious of a prescription brought to him by Mrs. Bond and told the police, was commended by the magistrates. A further check by the police of all the registered chemists in the town revealed a number of other cases where pethidine had been issued to Mrs. Bond as a result of forged prescriptions. Mrs. Bond, in court, said: "I have now broken the habit of taking these tablets. I only took them at night to ease the pain."

COMPANY NEWS

Previous year's figures in parentheses

CHEMICAL CONSTRUCTION (GREAT BRITAIN), LTD. — Dr. R. H. Dodd was appointed managing director on May 28, on the retirement of Mr. M. S. Henderson. Mr. Henderson is continuing as a director.

GLAXO LABORATORIES, LTD.—The company has received over 90 per cent. of acceptances from Ordinary shareholders in Allen & Hanburys, Ltd., and all conditions having been fulfilled, the offer was declared unconditional and extended until June 5.

MERRELL-NATIONAL (LABORATORIES), LTD., have taken offices at 20 Savile Row, London, W.1, and are commencing trading in this country so soon as recruitment of staff is completed. Mr. Alan Talbot, M.P.S., has been appointed managing director (see next column).

ALBRIGHT & WILSON, LTD.—At an extraordinary general meeting on May 29, resolutions were passed to increase the issued capital of the company by the issue of one fully paid 5s ordinary share (to be converted into stock) for every four 5s. ordinary stock units held by stockholders on the register on May 15.

LAPORTE INDUSTRIES, LTD. — A final dividend is proposed of 11 per cent. on the £4,057,371 Ordinary capital, making, with the 5 per cent. interim on the £3,245,897 capital prior to a "rights" issue, an unchanged total of 16 per cent. for the year to March 31. It is also proposed to capitalise reserves to the extent of £4,057,371 and to issue 16,229,485 Ordinary shares of 5s. each, credited as fully paid, to the Ordinary stockholders on the basis of one new share for each unit held. The consolidated income of the group is £2,117,658 (£1,774,443); tax provision £1,063,895 (£924,959) of which £1,023,678 (£829,712) is for tax in the United Kingdom. The net income is £530,115 (£470,718).

New Companies

P.C. = Private Company; R.O. = Registered Office

LAVAPINE (SOUTHERN), LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in all kinds of wax polishes, etc. Directors: Robert S. Morpeth, F.P.S., John Armstrong-Payne and George P. Peebles. R.O.: 348 Greenford Avenue, London, W.7.

BUSINESS CHANGES

ARMOUR & CO., LTD. 4 Chiswell Street, London, E.C.1, are now trading as Armour Chemical Industries, Ltd.

THE name of British Chrome & Chemical (Holdings), Ltd., was changed to Associated Chemical Companies, Ltd., on May 29.

CHEMICAL CONSTRUCTION (GREAT BRITAIN), LTD., are moving in July to new premises at Henrietta House, Henrietta Place, London, W.1 (telephone: Langham 6571).

P. C. PRODUCTS, LTD., 33 Union Street, London, S.E.1, have opened divisional sales offices at 101 St. Vincent Street, Glasgow, C.2, and 22 Masshouse Lane, Birmingham, 5.

PERSONALITIES

ALDERMAN B. S. CLARKE, M.P.S., J.P., who was elected mayor of Southend recently is a former chief pharmacist at Moorfields Eye Hospital, from which position he retired at the age of sixty. He has served on Southend town council for thirteen years, three of them as alderman.

MR. A. SCHWARZ (managing director, Polack & Schwarz organisation) has been appointed an Officer of the Order of Oranje-Nassau. When in 1957 Queen Juliana of the Netherlands visited the Zaandam factory, at which is the head office of Polak & Schwarz, Mr. Schwarz had the honour of conducting Her Majesty on a tour of the various departments.



MR. ALAN TALBOT, M.P.S. (managing director, Merrell-National (Laboratories), Ltd.), has just returned from a visit to the parent organisation, Wm. S. Merrell Co., Cincinnati, U.S.A., where he has been discussing and studying the latest marketing developments and techniques. Mr. Talbot has had a varied experience in retail and manufacturing pharmacy. Before joining Merrell-National he was with May & Baker, Ltd., John Wyeth & Brother, Ltd., and E. R. Squibb & Sons, Ltd.

MR. EDWIN WILSON, M.P.S., 79 High Street, Pwllheli, Caernarvons, battled for more than an hour against strong tides in a frail canoe on May 23 to save a youth. He was called when 19-year-old Ewart Roberts, of Morfa'r Garreg, Pwllheli, was seen in difficulties after swimming out to a drifting dinghy in Cardigan Bay. Mr. Wilson, a 59-year-old South Caernarvonshire yachtsman, said: "They boy was about 200 yards offshore when I first saw him swimming in circles. I was afraid he might be carried to the open sea. The canoe—it's made of glass fibre—cannot take two people, so I told him to hang on to the bow and let his legs cling to the sides of the keel. It took me about 45 minutes to bring him ashore because I had to paddle hard against a strong head wind and a running sea." Both men were exhausted, but recovered after being attended to in the caravan camp.

MR. GEORGE L. SCHULTZ (president of Shulton, Inc., U.S.A.) has recently been on a visit to this country as a director of Shulton (Great Britain), Ltd., manufacturers of Old Spice toiletries for men. Mr. Schultz believes that the world is in the midst of a revolution of masculine living habits. It was a more fundamental change than a fashion, and as a result he was becoming a "cleaner, better dressed and better groomed" citizen of the world, using more soap and detergents, shaving himself more often and more quickly, etc. Mr. Schultz, who was born in New York City in 1917, is the holder of a degree in chemical engineering. He has been president of the parent company since his father's death in 1950.



MARRIAGE

KIRBY—EMBLIN.—At Mere, Wilts, on May 26, Idris Kirby, Ph.C., younger son of Mr. R. Kirby, M.P.S., and Mrs. Kirby, Tisbury, Wilts, to Judith Mary Emblin, East Knoyle.

DEATHS

CARTER.—On May 28, Mr. Richard Christopher Carter, M.P.S., aged forty-four. For the past five years Mr. Carter was in business at 335 Newport Road, Middlesbrough. He was secretary of the local branch of the National Pharmaceutical Union and was a co-opted member of the Middlesbrough Health Committee. A native of Middlesbrough, he studied in Edinburgh and later worked in London and Houghton-le-Spring, co. Durham.

CLEMENTS. — On May 24, Mr. Frederick Clements, aged eighty-eight. Mr. Clements was senior director and founder of F. Clements & Son, Ltd., 94 Ockendon Road, London, N.1.

PALMER.—On April 22, Mr. Frank William Palmer, M.P.S., Larkhill Pharmacy, The Packway, Larkhill, Wilts, aged fifty-eight.

SAMUEL.—On May 15, Mr. Harry Thomas Samuel, M.P.S., 2 Wards Cottages, Rear 17, Clapham Road, Lowestoft, Suffolk. Mr. Samuel qualified in 1899.

NEW PRODUCTS

A New Pack.—James Woolley, Sons & Co., Ltd., P.O. Box 279 Victoria Bridge, Manchester, 3, are now issuing their frangula compound tablets in roll of ten tablets, sent out in carton of forty-eight rolls.

Oral Anticoagulant.—Evans Medical Supplies, Ltd., Speke, Liverpool, 24, announce the immediate availability in the United Kingdom of an oral anticoagulant Marevan, the sodium derivative of 3-(∝acetonylbenzyl)-4-hydroxycoumarin (warfarin sodium). Marevan is issued in containers of 100 5-mgm. (red) and 100 3-mgm. (blue) tablets.

Cerebral Stimulant.—Duncan, Flockhart & Co., Ltd., 16 Wheatfield Road, Edinburgh, 11, announce the introduction of Atrol brand 2-dimethylaminoethanol bitartrate, a mild cerebral stimulant for use in general and psychiatric practice. The product is issued in containers of fifty and 500 5-mgm. tablets, and 100 and 500 20-mgm. tablets.

Potent Tranquilliser.—G. D. Searle & Co., Ltd., Lane End Road, High Wycombe, Bucks, announce the introduction of Dartalan dihydrochloride, a new phenothiazine tranquilliser, claimed fully effective at 15 mgm. daily for neurotics or 30 mgm. daily for psychotics. Dartalan dihydrochloride brand thiopropazate dihydrochloride is available as 5-mgm. and 10-mgm. tablets, each in bottles of fifty and 500.

Ant-powder New Pack.—Cupal, Ltd., Blackburn, have introduced a special ant-powder pack in the press-gun container. The powder contains both lindane and dieldrin, and is claimed effective also against beetles, cockroaches and other crawling insects.



Left: Bronnley sun-tan lotion (H. Bronnley & Co., Ltd., London, W.3) and Secto ant-killer (Cupal, Ltd., Blackburn).

Sun Tan Products.—H. Bronnley & Co., Ltd., have produced a sun-tan oil "on Continental lines" to go with their sun-tan lotion. The oil slightly colours the skin and contains emollients. It is claimed to off-set the drying effect of salt water and to act as an insect repellent.

A Mascara and a Complexion Soap.—Yardley & Co., Ltd., 33 Old Bond Street, London, W.1, have made available a new mascara, the Yardley Sapphire, described as "the latest shade in mascara." Messrs. Yardley are also marketing a newly blended and newly packed oatmeal complexion soap containing lanolin and "moisturising" ingredients. The pack is a box of three.

Dual Pack.—A small counter display stand housing for Yaxa antiperspirant plus a handbag spray bottle of Yaxa body powder is available from the distributors, Thos. Christy & Co., Ltd., Aldershot, Hants. The "duette" pack sells for the price of the antiperspirant.



TUBE AND CARTON: The pack for Sun Bliss cream, the new sun-tan speciality of Max Factor, Hollywood & London (Sales), Ltd., London, W.1 (see *C. & D.*, May 10, p. 503).

Skin Nutrient.—Based on a claimed discovery of Professor Stejskal, Vienna, Austria, that substances extracted from young skin can be absorbed into older skin and bring about a renewed suppleness and elasticity, Biocel cream, which embodies also vitamin E and allantoin, is being manufactured by Chase Laboratories, Ltd., and distributed by Walter Crowe, Ltd., 26 City Road, London, E.C.1. The pack is a pink and white jar.

Beauty Preparations Range.—Hydroseve, a distillate of flowers, is the distinctive ingredient in a new range of beauty preparations introduced into this country from France by Laboratoires du Dr. N. G. Payot, whose distributors are Munro Vitarex, Ltd., Old Bond Street, London, W.1. The range is called "stimulation" and includes a tonic lotion, a cream-powder base and a tinted make-up cream. Hydro-seve is a distillate of flowers without added synthetics.

Cleaner and "Barrier" Cream.—P.C. Products, Ltd., 33 Union Street, London, S.E.1, are marketing through chemists and others their 1001 carpet cleaner, described as non-poisonous, non-inflammable and harmless. The product is being advertised on television. Messrs. P.C. Products are also conducting a pilot sales scheme in York for a product described as the first barrier cream for furniture and cars to be offered to the British public. During the period of the scheme local stockists can qualify for bonus terms.

TRADE NOTES

Staff Outing.—J. H. Haywood, Ltd., Warser Gate, Nottingham, announce that they will be closed all day on Wednesday, June 11, for their staff outing to Woburn Abbey.

Lace Handkerchief Offer.—D. & W. Gibbs, Ltd., Hesketh House, Portman Square, London, W.1, are including in the popular and handy-size tins of their Astral all-purpose cream, a coupon enabling the purchaser to obtain three Nottingham-lace handkerchiefs on sending a 3s. 6d. postal order to the company.

Cash Prizes.—In a prize competition with cash prizes totalling £2,000 to competitors, and with entry forms available solely through chemists, Feedrite, Ltd., 300 Kingston Road, London, S.W.20, are offering cash prizes ranging from £150 to £7 10s. for proprietors and from £50 to £2 10s. for assistants supplying the first six winning entries. To the shops from which the most entry forms are received, whether winning or not, there will be awarded prizes of £100, £50 and £25 respectively.

Discontinued.—Parke, Davis & Co., Ltd., have discontinued the following items:—Chloretone (vials of ½ oz. and 1 oz.); morphine sulphate hypodermic tablets, gr. ¼ (No. 27) (bottle of 100); acne B vaccine (mixed) (bottle of 25 mils); anti-plague vaccine (mixed) (set of two and bottle of 25 mils); antisepsis vaccine (mixed) (bottle of 25 mils); gonococcus vaccine, 500 millions per mil (ampoule of 1 mil); Pollaccine (bottle of 25 mils (500, 1,000, 2,000, 5,000, 10,000, 20,000 and 50,000 units per mil)); Streptococcus pyogenes vaccine (bottle of 25 mils); and streptococcus vaccine (mixed) (ampoule of 1 mil).

INFORMATION WANTED

The Editor would appreciate information about the following:

Vicil suspension 80 c.c.
Trepsin (trypsin)
Heineman's Spray Mite
Pinkie plastic baby pants
Nature bone



LONG SERVICE REWARDED: Mr. Farrant (managing director of Macarthys, Ltd., Romford) presents gold medals to Messrs. E. F. J. Jordan and W. R. Miller on their completion of twenty-five years with the company (see *C. & D.*, May 31, p. 581).

MANUFACTURERS' ACTIVITIES

Foil Division.—The formation of a foil division was announced on June 2 by Venesta, Ltd., Queen Streeet Place, London, E.C.4. Known as the Venesta Foil Division it aims at achieving co-operation and co-ordination between Venesta, Ltd., and the Empire Aluminium Co., Ltd., which Venesta acquired

when they took over the Aeme Tea Chest Co., Glasgow, in 1957. Each company is to retain its own entity, personnel and sales organisation. The Foil division is to incorporate the Venesta tube department. The new division (eombining output statisties) will produee 40 per cent. of the national output of aluminium and other foils; and meet more than 45 per cent. of all foil exports from Britain. Mr. J. A. Kind (sales manager) spoke of the "almost dramatie inerease in the use of aluminium foil" for, among others, pha-maceutical and medieal produets.



200 years Geigy

Proud record of a Swiss organisation that has become world-wide



THE now world-wide organisation of J. R. Geigy, S.A., is this year celebrating the 200th anniversary of its founding in 1758, when Johann Rudolf Geigy set up in Basle, Switzerland, as a merehant of dyes and drugs. Today its assoeiated eompanies number about fifty, ineluding the Geigy Pharmaeeutieal Co., Ltd., Manchester, 23. They operate in over seventeen eountries. Throughout those 200 years the eompany has borne the name Geigy, and there is still a direet descendant of the founder on its board.



Traugott Sandmeyer

Founded as a merehant house, it was operating its own water-driven dyewood mill as early as 1833. In the middle of the nineteenth eentury the founder's great-grandson built a steam-powered dye extraet works, representing the eompletion of a transition from merchanting to large-seale manufaeture. In that period great eontributions were made by Traugott Sandmeyer, a chemist of exeeptional talent and a strong flair for original researeh. Geigy's representation in Britain dates from 1886.

Until the 1939–45 war the name of Geigy was best known in the dyeing industry, but its fame spread throughout the world from the discovery in its Basle laboratories of DDT insecticides. That diseovery, whieh has revolutionised pest-eontrol teehniques, was the outcome of a research programme started in the 1920's and aimed at developing a permanent mothproof for wool (an aim realised in 1939 with the diseovery of Mitin). Not all Geigy products are marketed in every country, and some factories outside Switzerland make products not made by the parent eompany. For example, in Britain there has been greater specialisation than in Switzerland on plasties chemieals.

The British Geigy organisation comprises two selling eompanies (The Geigy Co., Ltd., Rhodes and the Geigy Pharmaeeutieal Co., Ltd., Wythenshawe, Manehester); two manufaeturing and two research companies. The parent eompany in Basle is also joint owner, with two other Swiss eompanies (CIBA and Sandoz) of the Clayton Aniline Co., Ltd., Manchester. General industrial, pharmaceutieal and plasties ehemieals are manufactured by one of the two manufaeturing companies: Ashburton Chemical Works, Ltd., Old Trafford, Manehester. The group is the second largest assoeiate.

For the discovery of DDT (dichlorodiphenyl trichloroethane) in 1948 Paul Müller, head of the Geigy research team, was awarded the Nobel prize for physiology and medicine. In the field of pestieides Messrs. Geigy are now eollaborating with Fisons, Ltd. (see *C. & D.*, April 26, p. 449), on a world basis in researeh, development and distribution. In the British market distribution is being handled by Messrs. Fisons, while Messrs. Geigy are concentrating on manufacture.

The bieentenary was celebrated in London at a gathering at whieh the speakers were the Swiss Ambassador (Dr. Armin Daeniker), the ehairman of Geigy (Holdings), Ltd. (Mr. Charles F. Gysin), and Mr. C. A. Staehelin (a director of J. R. Geigy, S.A., Basle). In a telephone link-up spokesmen of Geigy in each of the five eontinents offered their eongratulations. A toast to the eompany was honoured in Kirseh flown from the Geigy experimental farm.



Trafford Park Works, Manchester, the British companies' expanding plant for the manufacture of industrial chemicals including pesticides. At left of title, House (as pictured in old town plan of Basle) in which Carl Geigy (grandson of the founder) first operated a dyewood mill. At right, New administrative building at Basle.

FIGURES IN THE PHARMACEUTICAL WORLD

AFTER thirty-seven years in the pharmacy department of University College Hospital, London, Mr. Francis Henry Newman, F.P.S., is today enjoying the early months of his retirement.

Mr. Newman came into pharmacy by mistake, he says, but more accurately by accident. At times in his life he has taken on tasks and duties far removed from pharmacy. Yet he has been the trusted lieutenant of three Chief Pharmacists, has carried out the planning in detail of an expanded pharmaceutical department, achieved a reputation as an accomplished, resourceful colour photographer, and reaped spectacular harvests from vegetables grown entirely in chemical solutions.

Mr. Newman started out in life as a laboratory assistant at Wellingborough, Northants, Technical Institute, where his father was an instructor in mathematics. He was having every encouragement to study for a degree in science when a change of plan by the local authority left him "redundant." Making a "last call" as customer for chemicals at the pharmacy of Simco & Co., pharmaceutical chemists, he was invited by the proprietor, Mr. R. H. Robinson, to become a pharmaceutical apprentice. The idea was attractive, perhaps because Messrs. Simco were "photographic" chemists, and he signed on for four years. That was in 1912. War broke out during his apprenticeship. In 1915 (before conscription was brought in) he went up to London on a half-day and signed on as a member of the Friends' Ambulance Unit. He was sent to work at York Military Hospital, where he was put on night duty.

More than once in his career Mr. Newman has become the man of the moment by volunteering to undertake work for which he had only slightly better qualifications than his colleagues but an eagerness to enlarge his range of skills. An early instance occurred at York. A veterinary surgeon wanted an *x*-ray photograph of a horse's hoof, and Newman, with a slender theoretical knowledge of radiography, agreed to operate the apparatus if it were hired. Whether by beginner's luck or natural dexterity he got a good result at first go, revealing that a nail driven in by a farrier had penetrated a bone. That gave him, within his immediate circle, a considerable prestige as an *x*-ray photographer. It was to come in useful later on but there came a serious interruption to Newman's progress—a long bout of scarlet fever followed by typhoid (to which he nearly succumbed). He recovered and was sent, again by the Friends' Ambulance Unit, first to the King George Hospital, Stamford Street, London, and then to the Queen Alexandra Hospital, Dunkirk, France. Knowing that he would eventually be returning to pharmacy he deliberately chose non-pharmaceutical duties in the hospital, taking on *x*-ray work, care of the lighting installation, and eventually colour photography. On the strength of a nodding acquaintance of the subject he was set to photograph in colour (by the Antochrome process) a long series of wound lesions, principally for the information of United States Army Surgeons. Here again, without printed instructions, he hit on the right amount of flash powder to use for correct exposure, camera settings, etc., and mastered the intricate development process to produce several hundred first-class transparencies, and he remained on similar work at Dunkirk until his demobilisation in March 1919.

His first post-war employment was as assistant to Davies, chemist, Chelsea, whom he left in October 1919 to study at the Pharmaceutical Society's School. He made a new reputation with the Dean (Professor Greenish) as the student who got the lantern working one day after the professor had abandoned hope of getting slides shown for one of his lectures. That stood him in good stead in 1921 when, after qualifying as a chemist and druggist (gaining, too the School's silver medal in Practical Chemistry) in 1920 and after passing the Pharmaceutical examination the following year, he was recommended by the Dean for a post in the pharmacy department at University College Hospital. The pharmacists working in the department were hoping for a colleague to relieve the pressure but the Chief Pharmacist (Mr. C. H. Hampshire had not then secured his medical qualification) had other ideas. Newman was put to assist in laboratory work and in the preparation of an index for the *Quarterly Journal of Pharmacy and Pharmacology*, as it was then. During those years he assisted in the search by Chassar Moir for the water-soluble principles of ergot. He extracted large



62. MR. F. H. NEWMAN

amounts of the sclerotia, from which finally ergometrin was isolated. He also aided Sir Thomas Lewis in his research into quinine that eventually led to the finding of the alkaloid quinidine, Mr. Newman's part being the making for clinical trial of capsules of each of the many alkaloids of quinine.

In due course Dr. Hampshire took over the editorship of the British Pharmacopœia. Newman remained as Deputy Chief Pharmacist under Mr. (later Dr.) Harold Davis, though he was more usually deputising for the hospital photographer during the latter's absence during the war. In the war years Mr. Newman lived in at the hospital. He worked there in conjunction with the surgeons of Hill End Hospital to find a method of treating burns, and produced a sulphonamide-gelatin application that achieved great success, the newspapers publishing articles on "wonderful cures" by its use. He also worked on protective barrier creams for girls engaged in filling nitro-compound in explosives, on a barrier cream containing dimethyl phthalate to protect the troops in Malaya from the attacks of tree leeches, and on anti-ultraviolet creams to protect men marooned in rafts.

After the end of the war, with the help of the hospital's rat catcher, Mr. Newman proved that dicoumarin provided an excellent means of destroying rats. For many years the hospital's rats have been kept under control with dicoumarin baits, a method that has become a commercial method in warfarin.

In turn Mr. Newman became Deputy to the present Chief (Mr. T. D. Whittet). He was largely responsible for supervising the installation of the hospital's first sterile department, and for the issue of the first sterile solutions to the wards. His proficiency as a hospital pharmacist is being recognised by his fellow members of the Guild of Public Pharmacists (see p. 602).

Mr. Newman retired on March 31. He will be devoting a good deal of his time to his hobby of colour photography and much of the rest to the cultivation of $1\frac{1}{2}$ acres of garden by, as he says, "fully mechanised" methods. Nevertheless, if anybody presents him with a problem that challenges his ingenuity, manual skill and pharmaceutical knowledge to solve, it will be in line with past form that he will forsake his retirement, put on again his white overall with the pocket overloaded with weapons of the craft, and apply himself to it for long enough to arrive at the answer.

NATIONAL PHARMACEUTICAL UNION

Stamp trading, purchase tax losses and television advertising

MEETINGS of the National Pharmaceutical Union Executive and related committees were held in London on May 28 and 29, Mr. H. G. Moss in the chair. Messrs. Aldington, Heseltine, Hughes, Teare and Tristram were absent.

Stamp trading activities, losses of capital consequent on purchase tax rate reductions and I.T.V. advertising were among matters discussed by the Executive.

It was reported that in the London area a few chemists were known to be participating in a scheme of issue to customers stamps exchangeable for "free gifts," the stamps being purchased by the retailer at 2 per cent. of the nominal value of the trading stamps. Those chemists known to be participating had been informed that their issuing gift stamps would conflict with the terms on which they obtained supplies from many manufacturers and they had been urged to reconsider their policy in the interest of maintenance of stability of trading conditions in retail pharmacy. It was decided not to proceed at this stage with an I.T.V. programme advertising proprietary baby requisites, which had been planned for the early autumn; although manufacturer - co-operation had been secured to a considerable extent, it fell short of what was considered necessary to ensure that the scheme could be financed satisfactorily. Manufacturer co-operation, however, is to be invited for a "Christmas gift" advertising scheme on lines similar to the successful pre-Christmas 1957 television advertising scheme.

A reported change of policy of a photographic manufacturing company so as to widen the distribution of its roll films came under discussion and the Executive decided to make representations to the company on the matter and to take such action as was now open to a trade association to minimise the effect on the economic interests of its members if there were any widened competition in film sales.

Mr. A. Howells was unanimously elected chairman of the Publications and Price List Committee. The retiring chairman (Mr. G. T. M. David) thanked the committee for the co-operation which they had extended to him during his term of office. Further consideration was given by that committee to the summer set of display cards to be sent to those members who contributed to the N.P.U. Topical Show Card Service, and the detailed layout and colouring of the cards was provisionally settled. Arising out of a general discussion about display material, it was agreed that the committee should consider at its next meeting whether any guidance or assistance in connection with window displays, using the service of experts, could be given to members. A proposal that the N.P.U. price cards should in future measure approximately 6 in. by 3 in. (for keeping on shelves) was turned down. The committee decided that no alteration should be made in the size of the existing cards when they were next reprinted, as it would be impossible to produce smaller cards which would meet the requirements of all members. An earlier decision not to include in the N.P.U. Retail Price List tablets which were available in proprietary form and for which the manufacturer quoted a retail price was reaffirmed. The earlier decision resulted from the fact that those tablets did not conform to the revised price structure which was recently introduced. The committee considered that most members would go to the manufacturers' list for a price and that it was not practicable either to include all the tablets concerned or to make a short selection which would suit the needs of the majority of users of the list. The work of revising the basic quantities used in calculating prices in the main section of the list, to reflect current buying practices, is continuing.

N.H.S. Matters

At the meeting of the Central N.H.S. (Chemist Contractors) Committee Mr. G. H. M. Graham was unanimously re-elected chairman. In the dispensing costs inquiry, just over 50 per cent. of the chemists approached had either completed the questionnaires and returned them to the consulting accountants or had indicated that they would co-operate. About 12 per cent. had indicated that because of staff difficulties, sickness, etc., they could not co-operate; replies were awaited from the remainder of the sample.

Arising out of the deputation from the committee to the Parliamentary Secretary of the Minister of Health (in January) the Ministry had proposed to set up a small committee to consider "what information it is practicable to assemble or collect continuously or at regular intervals to assist the two sides of the Whitley Committee, jointly or severally, to estimate from time to time the extent of such variations as may occur in the income and expenses of chemist contractors in the provision of general pharmaceutical services under the National Health Service." The Committee appointed four representatives to take part in the discussions.

The secretary reported that there had been no developments on the container allowance question since he met the secretary of the management side of the Pharmaceutical Whitley Council on April 24. At that meeting it had appeared that the matter could be settled quickly but nothing further had been heard from the Ministry. The committee decided that the secretary of the management side should be informed of the extreme dissatisfaction of the committee with the position and should be asked for a reply without further delay.

An approach had been made to the pharmaceutical and statistical sections of the Ministry about the selection of a sample of prescriptions for the investigation to be carried out in the Central Checking Bureau in connection with the list of "agreed basic pack" proprietaries; replies were awaited.

The Committee noted that arrangements had been made for the first meeting of the Working Party recently set up by the Ministry to revise the Drug Tariff. The purpose of the Working Party would be to make a practical re-arrangement of the material contained in the Tariff, not to touch upon the policy embodied in it. In addition to the Central N.H.S. Committee and

the Ministry, the British Medical Association and the Joint Pricing Committee were represented on the Working Party. A report was presented on the meeting between representatives of the Central N.H.S. Committee and of the Joint Pricing Committee for England which discussed the position in the Bureaux and the possibility of securing a return to full pricing. The recommendations settled at that Joint meeting were adopted.

Consideration was given to correspondence from a number of Pharmaceutical Committees and individual contractors which expressed concern about the omission, from the revised dispensing fee scale, of a separate fee for supply of mixtures in more than one container where required by the doctor. The Committee decided that the Ministry should be asked to provide an additional fee for each extra quantity ordered in such circumstances. (The Ministry has already agreed to amend the scale provided that the amount of the fees and their incidence are such that the average of 14·58d. is not exceeded and that the additional fee is payable only for extemporaneously dispensed liquid medicaments.)

The Ministry had accepted the proposal, put forward after the last meeting of the Central N.H.S. Committee, that prescriptions ordering liquids or tablets, etc., carrying the 4s. fee should be sorted into the S bundle but could not agree that prescriptions ordering extemporaneously prepared ointments should be placed in the S bundle; the grounds on which the Ministry refused the latter proposal were that a much larger percentage of prescriptions would be involved and that orders for extemporaneously dispensed ointment represented only one section of the "middle" group of fees.

Detailed proposals relating to the supply of oxygen and oxygen therapy equipment on Form EC10, framed by the Ministry in the light of amendments proposed by the Central N.H.S. Committee to the Ministry's original proposals, were considered, and guidance was given to the representatives of the Committee who were to meet the Ministry early in June to continue the discussions. Information on the supply position and cost of the new light-weight oxygen equipment, obtained from the three firms manufacturing the equipment, was also reported to the Committee.

In connection with problems which had arisen where dressings had been sampled under the Drug Testing Scheme, the secretary reported that the Ministry had replied to the Committee's proposal that all dressings should bear the name and address or registered trade mark of the manufacturer. The Ministry had said that although most manufacturers would be prepared to label the wrappings with either their own or the wholesaler's name and address or trade name, doubts had been expressed as to whether wholesalers would accept such labelling. In some cases, the Ministry said, the wholesaler insisted on a plain label. It appeared to the Ministry that it would be impracticable in the circumstances to make a requirement under the Drug Tariff that dressings should bear a name and address or registered trade mark. The Committee decided that the Ministry should be informed that the reply was unacceptable; the Committee still considered it essential that dressings should bear either the name of, or some mark identifying, the manufacturer or wholesaler.

Mr. W. Talvan Rees was re-elected chairman of the Marketing Policy Committee. Reports on the extent of purchases by members of the N.P.U. sponsored hot water bottles, powdered glucose and "Nucot" dressing indicated that they had met with a wide measure of acceptance and had clearly filled a need which members had been experiencing. Further marketing projects were under discussion but had not yet reached a stage for any formal announcement to be made.

DENTAL PRESCRIPTIONS

Additions to and deletions from the Tariff in Scotland

THE list of drugs which may be ordered by dental practitioners on the dental lists of Executive Councils in Scotland, which was reproduced in Section VI of the January 1958 Drug Tariff has been revised as from June 9, 1958, by the National Health Service (General Dental Services) (Scotland) Amendment Regulations, 1958. The following preparations have been added to the list:

Caffein. (replaces caffein. cit.)
Calc. gluconat.
Calc. lact.
Phenacet.
Caps. methylpentynol.
Elix. casc. sagr.
Elix. chloral. pro inf.
Any elixir containing methylpentynol as sole active ingredient
Haust. chloral.
Liq. ameranth. (replaces liq. azorubri)
Solv. thymol. co.
Tab.
- acid. acetylsalicyl. et quinin. co.
- acid. acetylsalicyl. solub.
- aneurin. co. fort.
- calc. lact.
- casc. sagr.
- casc. sagr. co.
- codein. phosph.

Troch. pot. chlorat. (replaces troch. pot.)
Troch. chlorat. et borac.
Phenoxymethylpenicillin caps.
Phenoxymethylpenicillin tab.

The following preparations have been deleted from the list:
Caffein. cit.
Butylchloral. hydr.
Eugenol
Glycerin.
Collut. acid. tannic.
Collut. thymol. co.
Glycer. phenol.
Liq. arsen.
Liq. azorub.
Liq. pot. hydrox.
Solv. borac. et benzamin. co.
Solv. proflav.
Tab.
- acid. nicotin.
- magn. carb. co.
- nicotinamid.

Tinct.
- aconit.
- gelsem.
- ipecac.
- kramer.

Troch. pot. chlor. et borac.

SCOTTISH EXECUTIVE ELECTION CANDIDATES:



Mr. W. Spence Culbert

Four of the candidates for election to the Executive of the Scottish Department of the Pharmaceutical Society. Portraits of six others and brief biographies of the twelve candidates who are contesting the six vacancies, were given last week.



Mrs. E. A. Kidd



Mr. J. J. Lewis



Mr. W. S. Tait

N.H.S. STATISTICS

In ENGLAND in February, 16,105,150 prescriptions (10,526,750 forms) were dispensed at a total cost of £4,934,571. Average cost per prescription was 73·54d.

In LONDON during the year ended March 31 Pharmaceutical Services cost £4,034,346 compared with £4,189,724 in 1956–57. Cost of the services in the £ was 5s. 10d. (6s. 4½d.).

In MIDDLESEX during 1957, 11,103,423 (1956, 12,178,173) prescriptions were dispensed at a total cost of £3,397,289 (£3,056,022). Average cost per prescription was 75d. (61·5d.).

For the patient who must remain alert



'Nilergex'—the new antihistamine without sedative effect

'Nilergex' is a potent antihistamine for the symptomatic relief of allergic conditions such as hay fever; vasomotor rhinitis; allergic dermatoses and food allergies; insect bites and stings and motion sickness.

'Nilergex' is outstandingly free from side effects. It is the most suitable antihistamine for routine use in ambulant patients of all ages who are following their daily occupation and need to be alert.

Available as 'Nilergex' Tablets 4 mg., 'Nilergex' S.A. (Sustained Action) Tablets 12 mg. and 'Nilergex' Syrup (2 mg. per teaspoonful (3·5 ml.)).

IMPERIAL CHEMICAL INDUSTRIES LIMITED Pharmaceuticals Division Wilmslow Cheshire

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Here is marvellous new

CORONA

TANGO



CORONA · THOMAS EVANS LTD., PORTH RHONDDA SOUTH WALES

For you, as a chemist, as a businessman

5 FACTS ADD UP TO 1 'MUST'...

1 EXTRA QUALITY Tango is a completely new extra-quality line, made by Corona, in the ever-more-popular field of Concentrated Whole Orange. Extra quality? Certainly, for as the Gold Seal on every Tango bottle testifies, Tango has already won the 1957 award of the British Bottlers' Institute for the best product of its kind on the market.

2 WHOLE ORANGE WITH GLUCOSE AS WELL Tango is made from whole oranges. Furthermore, *it is sweetened with Pure Sugar and Glucose as well.* This provides a matchless orange drink.

3 GOOD PROFIT MAKER Tango, with an eye-catching new bottle label and cellophane wrapping, sells at 3/6 per bottle. Your margin: 9/6 per dozen.

4 TV JINGLES AND PRESS Tango has been launched with one of the biggest advertising campaigns known for a product of this kind. This campaign is now in progress. Regular TV commercials, carrying the hit Tango jingle, are being seen several times a week by an audience of 7 million. A heavy national press campaign has been familiarising the public with Tango and its advantages.

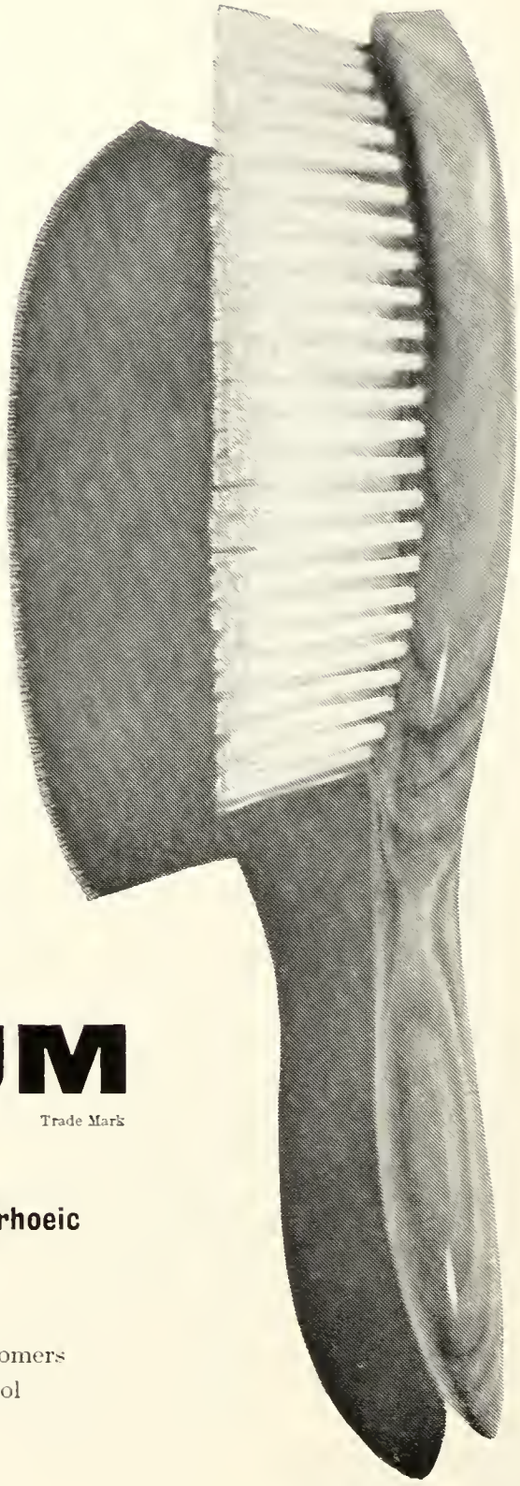
WOBBLY BALL OFFER From June 15th Tango sales will be given an extra boost by the wonderful offer of the Tango Wobbly Ball. customers can get this holiday-mood novelty in hardwearing by asking you for the 'Tango' Ball Entry Form, and sending orona 3 of the Gold Seals attached to every Tango bottle. postal order. This offer will be advertised by thrice-weekly ials, in addition to the regular Tango commercials, -space insertions in the most widely-read national papers, readership of 64½ million.



STOCK CORONA TANGO

Gold-Seal-endorsed as the best whole orange drink





Kept Free from DANDRUFF with

LENIUM

Trade Mark

The NEW medical treatment for dandruff and other seborrhoeic conditions of the scalp.

Lenium will appeal to your customers because it gives maximum control with the minimum of effort, because it is pleasant to use and leaves the hair manageable.

To you, Lenium can mean many satisfied customers and regular repeat sales.

2·5% selenium sulph de and 1% Loroth dol (2,2'—Thiobis [4,6—dichlorophenol])
Supplied as a cream in tubes of 1½ and 4 oz.
Trade prices: 2/9d. and 6/8d. Retail prices: 4/11d. and 12/0d. inc. P.T.

Bayer Products Limited
Kingston-on-Thames, Surrey
Associated exporting company: Winthrop Products Ltd.

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

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TELEPHONE CENTRAL 6565

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Sterilisation by Irradiation

THE application of high-energy electrons to the processes of pharmaceutical sterilisation—already effected for certain materials—suggests that many current techniques of large-scale production of medicinal products may eventually be replaced. First indication of that possibility was given in 1954 in a paper read by C. W. Miller at an industrial electronics convention in Oxford. Miller's work suggested that many drugs administered parenterally might be processed by the new "cold" sterilisation. A recent hint that the new technique may come more widely into use is the introduction by the Metropolitan-Vickers Organisation (see p. 604) of an industrial service to study the production applications of the linear accelerator. The company foresee that the apparatus will be used in, among other things, the pharmaceutical industry. Hospital installations already providing radiotherapy in cancer treatment may, with slight modification, come into use in the routine sterilisation work required by pharmaceutical and other departments. Naturally extra work of that kind by the apparatus would not have to overlap treatment times, but it would lead to greater use being made of the machine and thereby help to defray the considerable capital investment involved.

The eventual impact upon pharmacy of the wider use of the process could be considerable. If, for example, pharmaceutical manufacturers were to utilise the new method, their pharmaceutical staffs would need to become acquainted with the nature of the high-energy electron beam with which they would be operating. They would have to arm themselves with all the available data not only upon the process but also upon the health precautions necessary for such work. For the latter purpose the Atomic Energy Commission's health *personnel* course may provide useful information.

While it is unlikely that the theory of sterilisation by conventional methods could ever be neglected in a pharmacist's training, much work currently done in aseptic conditions under pharmaceutical supervision might become obsolete.

Patents Appeals

AS the result of a decision recently given by the Court of Appeal, it seems unlikely that in future any appeal may be brought against a decision of the Patents Appeal Tribunal if the hearing would involve consideration of the technical matters. The situation has come about because a company sought to have a decision of the Tribunal quashed on the ground that the record contained an error of law. It was alleged that the Tribunal had, in considering rival specifications put forward by another company, misconstrued them.

Any consideration of the specifications by a court would obviously have involved a consideration of the technicalities. That would have necessitated instructing the court by (a) reference to books and (b) the evidence of experts, and reference to a variety of technical matters and terms. The divisional court was only able to look at the evidence already given in the proceedings before the Appeal Tribunal. As fresh evidence could not be received by it on affidavit or otherwise (the Court's powers are restricted because of the special character of its proceedings) the divisional court refused the application. Against that decision appeal was made to the Court of Appeal, which, for the same reasons, dismissed the appeal, further refusing leave to appeal to the House of Lords. The decision naturally gives a new importance to the Patents Appeal Tribunal.

Sickness Benefits for the Employer

MANY employers who fall sick fail to claim their dues from the local office of the Ministry of Pensions and National Insurance. Perhaps they feel that, for the form-filling required the benefits are not worth having. They are wrong on both counts. Red tape has been cut to a minimum. And under the current rates a man gets £2 10s. a week for himself and extra for any dependants he may have. As an example, an employer with a wife and three children aged nineteen, sixteen and ten would get:

	£	s.	d.
Basic benefit for himself	2	10	0
For his wife	1	10	0
For a child aged 10		15	0
16		7	0
19 (over age) ...	no benefit		
Total benefit	£5	2	0

It is assumed that the wife is not earning more than £2 a week and is living with and being maintained by her husband. It is also assumed that the child aged sixteen is still at school or apprenticed. But the £5 2s. is not all this man receives. He gets relief from paying his 11s. 6d. contribution during each week of sickness, and even if for some technical reason he is unable to draw benefit he may still be given a free credit while he is away from business.

Not all cases are as simple as the example given, but variations in circumstances are taken care of by the regulations. For instance, if not entitled to benefit for a wife a man can claim a dependant's allowance in respect of a close relative living with him or a woman looking after a child or children for whom benefit is payable. The "red tape" aspect is that to be able to claim sickness benefit one must have actually paid twenty-six contributions since he became insured: must have paid or been credited with at least fifty contributions in the last "contribution year" before the "benefit year" began (i.e., that for full benefit one must have had an almost full house of stamps or credits on one's last card). The money is paid for "periods of sickness," and it is not possible to get benefit for an odd day, only if two or more days of sickness occur within a period of six consecutive days, excluding Sunday.

Benefit is not paid for the first three days of a spell of sickness, but if those "waiting days" extended to at least twelve within thirteen weeks of the first "waiting day" they would be paid for. If the person claiming is sick enough to become incapable of work, he must ask his doctor for a medical certificate "the first medical certificate" showing the cause of his incapacity. The doctor completes the first part of it and the claimant the second part, sending it off at once to the local office of the Ministry. It is important to deal with the matter at once, otherwise benefit may be lost or further form-filling and letter-writing be needed. The aim is to see that the local office gets the first certificate—or a note—within three days from the start of the illness. Even if, for any reason, a medical certificate is not immediately available the local office should be notified of the incapacity, with name, address, date of birth and (if you have it) National Insurance number, the certificate following as soon as possible (in any case within ten days).

Payment is made by a postal draft valid for three months to be cashed at any post office.

ECHOES OF THE PAST

ENCOMIUM UNNECESSARY

From the *Morning Chronicle,* April 9, 1795.

DR. HODSON, finding his apartments in Hatton-street not sufficiently commodious for the reception of his patients, in order to avoid the inconvenience of again changing his residence, has purchased No. 15 (formerly part of Hatton House) Cross-street, Hatton-garden; where his Medicines may be had at all times, and the Doctor consulted on Mondays, Wednesdays, and Fridays, from eleven o'clock to six. Dr. Hodson's Medicines have been so long established, and in such great estimation with the public, that it is unnecessary to pass any encomium on them in a newspaper; but it may be proper to observe, that this season is peculiarly advantageous to a course of his Vegetable Syrup, a remedy truly deemed the greatest purifier of the blood in all scorbutic, venereal, and scrophulous cases. It is sold at 10s. 6d. a bottle. His Persian Restorative Drops half-a-guinea a bottle, and his Aromatic Nervine Tea half-a-crown a packet, are equally celebrated in all nervous complaints, weakness, debility, relaxations, &c. &c. His Family Elixir, 5s. 5d. a bottle, is considered as a general promoter of health and long life; and for all complaints in the stomach and bowels, it is presumed no remedy hath ever been discovered more worthy of public attention. These Medicines may be had as above.

Onward from Galen

A CURRENT CAUSERIE

TOO RIGHT!



★

POTS bearing the name of a special preparation, rather than the name of a maker or supplier, seem to be comparatively rare, but the collection of Dr. Caraco, sold at Sotheby's on April 15, contained a specimen labelled "Pomade Divine." An issue of the *Belle Assemblée* during 1808 contained the following advertisement for "Pommade Divine":—

Approved by the most eminent of the Faculty for Bruises, Pains, Swellings, &c., for a Cancer, and for all Sore Breasts, particularly in a lying-in; for a Stiff Neck, &c.; for the Piles, and will prevent a Fistula; for Chilblains, Chapped Hands and Lips; will also cure Scalds and Burns; and will greatly relieve Rheumatic and Gouty Pains. The only true and Genuine Pommade Divine, prepared by J. Ogilvy, Perfumer to their Royal Highnesses the Duke of Gloucester, and the Princess Sophia Matilda, 63 Swallow-street, (who is the only person in possession of the genuine receipt).

The British Museum has specimens labelled "Delescot," "White Chemist 8 Haymarket," his successors "Hastings and White 17 Haymarket" and "Grindle Pall Mall." The Celia Hemmings Collection contained a pot with the name "Ruspini." In the Wellcome Museum may be found specimens with the names "Howard near the Queen's Palace" and "Stewart, London Manufactory, No. 12 and 13 Broad Street" and in the Fitzwilliam Museum, Cambridge, with the names "Hemet" and "T. Townshend." Other names found are "Sharp," "Philip and Son St. Martin's Court," "Waller and Son Guilford," and "W. Singleton Newington Butts." The Waller pots are amongst the commonest of the named pots. Also fairly common are the shallow Singleton pots made to contain the still well-known golden eye ointment. Those with the name W. Singleton were apparently made in the period 1795–1804, but there are also pots with the name T. Singleton, the father of William, who died in 1779, and of W. S. Folgham, William's grandson, produced during the period 1816–26.

★

THE pace of change in pharmacy is not so fully realised by those who have come into it in recent years as by those whose memory takes them back to times when products and practices had remained hardly changed for many years. That was entertainingly proved by Mr. F. H. Newman when he addressed his fellow members of the Guild of Public Pharmacists on May 31. Mr. Newman was speaking about his thirty-seven years in the pharmacy department of University College Hospital. One of his strongest early memories of the department was the arrival of a batch of stock bottles ("shop rounds") with burnt-in German labels in place of the gold and black labels that had identi-

fied the drugs and galenicals of the department for half a century. The point was that while the new labels were a great advance in attractiveness and durability they were for the same range of galenicals. In those years the department was still using large quantities of fresh infusions, which it fell to his lot to make, and before being admitted to the staff of the department he had had to give evidence that he could carry out assays of opium and ipecacuanha. Medicines were not "free" in those days, for out-patients were charged threepence a week for their medicines—an amount of such economic importance at the time that when another hospital raised its charge to sixpence many of its out-patients deserted to join the queue at U.C.H. Mr. Newman recalled making injection solutions with sterile water but holding them in bulk for use as required. When he was able to influence that practice he changed it, but just as "under the voluntary scheme housemen had to do as they were told" so, no doubt, did junior pharmacists. It is Mr. Newman's boast that he started the first sterile department at U.C.H., using a drum steriliser purchased as post-war surplus. But even while breast plasters continued to be called for from the department "the chief use of the brass scale-pan was for cutting them." One tremendous difference Mr. Newman sees that is not to the advantage of modern times is that the present-day patient has lost faith in what is prescribed for him, or has transferred it from the prescriber to the manufacturer of ethicals. It is certainly a far cry from the time when, as he relates, one U.C.H. out-patient was given, and presumably took, Gee's linctus weekly for two and a half years.

EFFECTIVE CONTROL
in a pharmaceutical business

H. G. MARLEY, M.P.S.

IT is generally known that the managements of large companies have at their disposal day-by-day details of all aspects of their organisations. Can the same be said for the managements of all the owner-manager or branch pharmacies of more modest turnover?

The margin of latitude between success and failure is sufficiently critical to warrant continual and energetic vigilance on the part of the proprietor or manager. The reading of the audited annual accounts, and the inferences to be drawn from them, are of the greatest importance to the proprietor. Whether the inferences prove pleasing or displeasing, the fact remains that the reading of them takes place up to eighteen months from the beginning of the year to which they refer. That time lag represents lost opportunity to correct errors in management and method, or to exploit favourable conditions to the full. Without expense in time or money a system of continual observation may be instituted in any pharmaceutical undertaking. The essence of the system is analysis of relevant figures on a monthly basis, and the recording of twelve-month totals moving forward month by month. For the purpose of the recordings, sixteen-column analysis foolscap may be obtained quite reasonably from a stationer.

When the system is instituted, monthly totals of the previous year must be recorded for comparison, and complete figures for the year from the audit accounts are used to start the annual moving-total columns. Selective aspects of the accounts must be chosen to suit the needs and type of business, but they must include monthly sales and purchases. The two factors are entered on the control sheet, which consists of columns headed: "Monthly Total"; "Cumulative Totals," and "Annual Moving Total." The monthly totals may be compared both for the current year and for subsequent years as the figures are entered. The cumulative totals show clearly the comparison for the given periods year by year, and the annual moving total shows the level of current business, the increase or decrease in cash value. Also on the control sheet are the monthly adjustments of marginal profit, and the annual moving total of marginal profit. That gives a continual picture of the trend of sales against buying, and reflects the stock value. The estimated stock is computed from the adjusted stock-taking figure at the commencement of the financial year by means of an arbitrary gross profit according to previous experience of the business. That column gives an estimated indication of how the stock compares with the level of sales. Wages and expenses can appear on the control sheet to enable a close watch to be kept on the level of expense, and calculations can then be made to economise, or on the other hand to spend more when expenses justify it.

A sheet of analyses is a companion of the control sheet. It highlights trends of credit sales, cash sales, accounts paid, departments, purchases of different types, dispensing, and various types of expense. None of the figures on the control sheet or analysis sheet are new figures, but they are a monthly source of vital information and force home to the operator regularly and clearly the statistics of his business, giving ample warning of overstocking, poor buying, excess spending, bad management or, on the other hand, confirming that the management is good and effective.

Date 1958	Credit Sales		Cash Sales		Purchases: Cosmetics		Purchases: Photograph, etc.		N.H.S. Receipts		N.H.S. Items		N.H.S. Final Totals	
	Monthly	A.M.T.	Monthly	A.M.T.	Monthly	A.M.T.	Monthly	A.M.T.	Monthly	A.M.T.	Monthly	A.M.T.	Monthly	A.M.T.
APRIL	430	5,251	422	8,001	160	2,582	250	1,268	340	3,563	1,350	16,380	360	4,375
MAY	410	5,147	530	8,005	230	2,516	60	1,285	290	3,570	1,300	16,400	320	4,370
JUNE	425	5,086	585	8,154	210	2,600	250	1,274	243	3,572	1,295	16,395	310	4,380

Date 1958	Sales: Monthly Total	Sales: Cumulative Total	Sales: A.M.T.	Purchases: Monthly Total	Purchases: Cumulative Total	Purchases: A.M.T.	Marginal Profit: Monthly Adjust.	Marginal Profit: Monthly A.M.T.	Estim. Stock	Expenses: Wages Monthly	Expenses: Wages A.M.T.	Expenses: General Monthly	Expenses: General A.M.T.
			(13,230)			(9,450)		(3,780)	(3,260)				
APRIL	852	852	13,252	750	750	9,596	−130	3,656	3,423	165	2,023	26	620
MAY	940	1,792	13,152	712	1,462	9,618	−122	3,534	3,486	160	2,017	82	618
JUNE	1,010	2,802	13,240	620	2,082	9,480	+226	3,760	3,408	162	2,021	40	623

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Fully Active

SIR,—Some person or persons have, with or without malice, been spreading the rumour that I have retired from my position of sales supervisor and medical, veterinary and pharmaceutical representative for the south-east, south, and south-west of England for H. & T. Kirby & Co., Ltd. Will you please print a denial of that rumour as I am in very active work on behalf of my company, and have just completed an 800-mile trip throughout Devon and Cornwall.

W. DAWSON-LLOYD,
Woking, Surrey

Why the Worry?

SIR,—One reads again with almost regular monotony of derision hurled by pharmacists (as by North Staffs Branch at the Branch Representatives' meeting (*C. & D.*, May 24, p. 561)) at those mainstays of pharmacy who are regrettably classed as "unqualified." Their constant concern in this matter continues to puzzle me, as I fail to understand what it is that really worries them. Is it that the dispenser can, and indeed does the job which the pharmacist qualified to do? Or is all dispensing in North Staffs done solely by registered pharmacists? Surely, under present circumstances, it is not asking too much for the long-experienced dispenser to be allowed to gather just a few crumbs from under the pharmacists' table? Sir Hugh Linstead has obligingly sponsored the statutory recognition of the unqualifieds in the veterinary and optical professions. I respectfully suggest that he should now turn his intentions towards the dispensers of the National Health Service.

GLEANER

How to be Professional

SIR,—It must be annoying to "Elderly Pharmacist" (*C. & D.*, May 31, p. 584) to see herbalists running prosperous businesses and able to charge consulting fees. The reason for their success is that usually they are first-class botanists and, although "unqualified" in pharmacy or medicine, have a wide knowledge of the use of "simples" in the treatment of certain disorders. They are in fact, the true descendants of the mediæval apothecaries. They look and speak like professional men, and their shops are in keeping with their pretensions. Far too often the pharmacist is regarded merely as a shopkeeper because it is almost impossible to differentiate between his shop-window display and that of a second-rate beauty parlour. I suggest that the remedy is to throw away all the elaborate proprietary display knick-knacks and restrict the contents of the window to a couple of old unguent jars, a pill slab and half a dozen shop rounds containing exciting looking substances such as copper sulphate crystals and fluorescein solution. Dress the pharmacist in a rusty frock coat and listen to the customers calling him "Sir." He will then be consulted instead of being told how much more comprehensive is the stock of the man down the street.

PARACELSUS

IT had been intended to publish a selection of letters concerning the distribution of films but at the time of going to press a meeting is understood to be in progress the outcome of which is expected to be satisfactory to the trade. Further information is therefore being given in next week's issue.

A Register of Locums

SIR,—The suggestion made by the Redhill, Reigate and District Branch (p. 584) is an excellent one if the register is restricted to the names and addresses of locums living within the Branch area. There is indeed today a real fear of illness, with its attendant high locum fees, but that fear would not arise if advantage were taken of the benefit available under the Chemists' Sickness and Provident Society. That benefit, while not covering the whole cost of the locum, would considerably minimise the burden. I would suggest to Branch secretaries that, on the next occasion on which they send out notices to their members, such notices should (1) include an invitation to them to state, if not fully employed, whether or not they would be willing to allow their names to be included in the Branch register of locums; and (2) draw the attention of all members to the Chemists' Sickness and Provident Society.

ALBERT HOWELLS,
Bexleyheath

Survival

SIR,—The word "survival" keeps cropping up in discussions about the changing conditions affecting business generally. It would seem that no section of pharmaceutical business is immune from it. Manufacturers of galenicals—some of them with century-old connections—have been forced, or have decided, to stop entirely their manufacture. Wholesalers are confronted with new methods of approach which, however they are framed, all aim at cutting out the wholesaler's margin. Many manufacturers would seem to be more and more anxious to do as much business as possible direct with the retailer, whilst expecting the wholesaler to be prepared to fill in the bits and pieces. An increasing number of manufacturers contend that they call on only one or two retailers, leaving most of the field to wholesalers. Quite frequently that is entirely untrue. The latest competition comes from the National Pharmaceutical Union scheme of sponsoring certain goods supplied direct from manufacturer to retailer at prices expected to compete with stores and attained by cutting out the wholesaler. The retailer's problem, especially in the big towns, is to know how to stay in positions of any prominence and pay the high overheads to do so. It is freely contended that the day of the private man is fast disappearing, and that owners of "one-man" businesses are either killing themselves off with long hours and hard work, or are unable to sell their business if they wish to retire. One wonders how accurate all these estimations of present difficulties are. Is the galenical market so little worth looking after? Will the wholesaler be forced to get business outside pharmaceutical outlets? Will retailers have to combine if they are to exist?

SURVIVALIST

Keeping Windows Cool

SIR,—T. R. Lester, Ltd., and other readers with window temperature trouble, may be interested in a recent successful experiment we carried out. Facing East, our windows became quite hot on sunny mornings before opening time, because even if the blind is left out from the previous night, the angle of the sun is low. Not only cameras but cosmetics were affected. In refitting the windows, we had a duct about 10 in. wide by 5 in. deep built into the ceiling of the windows (which is about 4 ft. below the actual shop ceiling). The duct leads to a box 18 in. by 18 in. housed in the ceiling of the entrance porch. In that box is a fan driven by a converted vacuum-cleaner motor, which has been slowed to the requisite speed by means of a resistance. The blades of the fan were cut from sheet aluminium. The base of the box projects into the open entrance porch with a baffle fitted to prevent direct draught on to the heads of customers passing in or out of the pharmacy. Ventilator slots were fitted into the base of the window allowing air to be sucked in from the street. The procedure is now as follows. The pharmacy is opened at 9 a.m. If the morning has been fairly sunny the fan is immediately switched on, the temperature in the window having been noted. Usually after an hour or an hour-and-a-half the temperature has dropped sufficiently to allow of the fan being turned off. Incidentally the original intention in having the fan fitted was to get over the problem of steamed up windows in winter. The fan has proved 90 per cent. effective in dealing with steamed windows, but 100 per cent. effective in treating summer-time heat—a problem that was not even thought of at the time.

ALLSHIRES,
Glasnevin, Dublin

Guesswork

SIR,—"Just for the hell of it," my guess (and I'm sticking to it) is Mist. ipecac. ammon. ℥viii, ℈p t.d.s.p.c., linct. cod. ℥iv, ℥ p.r.n.

R. H. KERR,
London, W.12

SIR,—After due consideration I have decided that the "funny" prescription on p. 584 of the *C. & D.*, May 31, can only be:—R Mist. Ipecac. Ammon. ℥j. tds. pc. ℥viii. R Linct. Cod. ℥ii. ℥i. pr.n. I suggest that the doctor should blot his prescription before folding.

GERALD PASTER
(Apprentice to Albert Hagon (1946). Ltd., Cardiff)

SIR,—My solution to your prescription query is:—R Mist. Ipecac. Ammon. ℥ss ℥j td. pc. et Linct. Codein. ℥ss ℥i as required.

H. MCQUITTY,
Belfast

SIR, — Heartiest congratulations to C. H. Patrick, Twyford, Berks, for deciphering the prescription in your correspondence column (*C. & D.*, May 31, p. 584), as it is a completely puzzling affair. In my pharmaceutical experience I have seen some very queer 'scripts—from doctors, veterinary surgeons and country animal "quacks"—but never anything like this. It strikes me as a composition by one of the old-type music-composing masters, for interpretation by a rock-'n'-roll band.

PATRICK J. SALMON, M.P.S.I. (Hons.).
Kilcock, co. Kildare

[THE correct reading of the prescription, sent by Mr. Patrick, is:—
R Mist. pot. iod. ammon. 8 oz.
½ oz. t.d.s.p.c.
R Linct. eodein. 4 oz.
dr. 1 p.r.n.]

Appreciated

MAY I wish long success to your publication, which strikes me as very live and interesting.—*C.C.*, Lisbon.

I THINK you may take it as a compliment to your good work that the usual Friday lunchtime conversation in this household is: "Come on, dear, your lunch is getting cold."—"I'll be just now, Margaret, I'm just finishing the *C. & D.*"—A. G. M., Angus.

INDUSTRIAL USES OF PEROXIDES

Fine chemicals group lecture and discussion

THE fine chemicals group of the Society of Chemical Industry met in London recently to hear a lecture by DR. E. G. E. HAWKINS (Distillers Co., Ltd.) on "Organic Peroxides and their Industrial Uses." Dr. Hawkins briefly outlined the chief methods of formation of peroxides. He showed the process of autoxidation to be a reaction widespread in application, widely differing classes of compounds giving peroxides by the process. He described the preparation, purification and a number of reactions of cumene hydroperoxide, including those with acid, ferrous ions, Grignard compounds, olefins, aldehydes and secondary alcohols, as well as the process of reduction; and gave similar details of the formation and isolation of the hydroperoxides from methyl*cyclo*pentane and methyl*cyclo*hexane. Reactions of 1-methyl*cyclo*pentyl hydroperoxide included, he said, the interesting one with ferrous ions in which the radical $MeCO(CH_2)_4$ was formed and dimerised to a C_{12} diketone. That radical and the one mesomeric with it were involved in the formation of other reaction products and in the produets of autoxidation of the original hydrocarbon.

The related reaction between ferrous ions and the peroxidie mixture, obtained from treatment of cyelohexanone with hydrogen peroxide, gave a C_{12} dicarboxylic acid by a similar route, yields appearing to depend on the type of peroxide involved. Dr. Hawkins next considered the autoxidation of acyclie paraffins and olefins, the olefins yielding a variety of products including (under neutral conditions) a large amount of epoxide, plus alcohols and ketones derived from the hydroperoxide, and alcohols and carbonyl compounds of smaller molecular weight formed by fission of the molecule. Finally he described some of the industrial applications of peroxides, and showed photographs of some plants producing phenol and acetone from cumene hydroperoxide, and listed companies operating such plant.

Discussion

In reply to DR. R. E. BOWMAN and DR. R. J. WICKER, the lecturer gave details of the oxidation of isopropanol and cyclohexane (alcohol treated with hydrogen peroxide in presence of a catalyst to form the hydroperoxide, which decomposes to give acetone in good yield).

DR. B. J. HEYWOOD asked what methods were recommended for the removal of peroxides from organic solvents, etc., and DR. HAWKINS pointed out that, whereas ferrous iron readily decomposes hydroperoxides, difficulty arises with peroxides. Catalytic hydrogenation was the safest way. He agreed with DR. H. J. BARBER that acidified potassium iodide could be used, but thought the iodine formed could be a nuisance. Dr. Barber also asked what what precautions should be taken in using organic peroxides, and received the reply that the explosive nature of the compounds bore some relation to the proportion of carbon. As the C:O ratio increased, compounds generally become less dangerous. Polymeric acetone was highly dangerous, and ketonic solvents should be used with extreme care. Reactions should be carried out in the presence of an inert gas and safety glass screens always used.

DR. J. D. KENDALL asked how organic peroxides could be analysed for carbon and hydrogen in view of their explosive nature, and DR. G. E. FOSTER was told that the liberation of iodine from potassium iodide was a suitable method for the analysis of peroxides.



VETERANS REUNITE: Ex-employees of Glaxo Laboratories, Ltd., Greenford, Middlesex, photographed at their twelfth annual reunion at the company's premises recently.

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products are given on p. 618.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

ANABOLEX tablets

MANUFACTURER: Lloyd-Hamol Ltd., 11 Waterloo Place, London, S.W.1.

DESCRIPTION: Tablets each containing 25 mgm. of androstanalone —a protein-anabolising, non-virilising hormone.

INDICATIONS: Conditions such as asthenia, malnutrition and wasting disease in which retention of protein nitrogen from the diet is of importance. Convalescent patients and anxiety states.

DOSAGE: *Adults*: 2-3 tablets daily. *Children*: 1-2 tablets daily according to age. Treatment should continue for fifteen days each month.

HOW SUPPLIED: In bottles of twenty-five and 100 tablets.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

CARMERIN

MANUFACTURER: H. R. Napp, Ltd., 3 Clements Inn, London, W.C.2.

DESCRIPTION: Tablets each containing acetylcarbromal, 200 mgm.; mephenesin, 150 mgm.; reserpine alk., 0·05 mgm.

INDICATIONS: Anxiety states, neuroses, nervous dyspepsia, insomnia and hypertension.

DOSAGE: For general sedation: 1 tablet three or four times daily. For insomnia: 1-2 tablets before retiring, or as prescribed.

HOW SUPPLIED: In bottles of fifty and 300 tablets.

FIRST ISSUED: February 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

BELLERGAL RETARD

MANUFACTURER: Sandoz Products, Ltd., Sandoz House, 23 Great Castle Street, London, W.1.

DESCRIPTION: Tablets each containing Bellafoline (total alkaloids of belladonna calculated as hyoscyamine), 0·2 mgm.; ergotamine tartrate, 0·6 mgm.; and phenobarbitone, 40 mgm.

INDICATIONS: Psychosomatic (functional and stress) disorders, including menopause, pre-menstrual tension, neurodermatitis, duodenal ulcer, effort syndrome and migraine (interval treatment).

DOSAGE: One tablet night and morning, or as directed by the physician. The tablets provide a sustained therapeutic effect, maintained up to ten hours after administration.

HOW SUPPLIED: In bottles of twenty, 100, 250 and 1,000 tablets.

FIRST ISSUED: June 1958.

POISONS CLASSIFICATION: P1, S1, S4.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

DEGRANOL

MANUFACTURER: Chinoin, Budapest.

DISTRIBUTORS: Leda Chemicals, Ltd., P.O.B. 500, Berk House, Portman Square, London, W.1.

DESCRIPTION: Ampoules each containing 50 mgm. of mannomustine dihydrochloride powder.

INDICATIONS: Chronic lymphoid leukæmia, chronic myeloid leukæmia, lymphadenoma (Hodgkins), reticulosarcoma, myeloma and pre- and post-operative treatment in gastric, intestinal and rectal operations for carcinoma.

DOSAGE: 50-100 mgm. every other day. Course of treatment: 600-800 mgm. Dosage must be supervised by blood pictures at short intervals. The contents of an ampoule are dissolved in 5-10 mils of sterile physiological saline or sterile apyrogenic water and administered intravenously over a period of ½-1 minute. The solution should be freshly prepared and should not be used after 24 hours.

HOW SUPPLIED: In box of ten ampoules, each ampoule containing 50 mgm. of powder.

FIRST ISSUED: May 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

CAFDIS tablets

MANUFACTURER: Reckitt & Sons, Ltd., Hull, Yorks.

DESCRIPTION: Tablets each containing acid acetylsalicyl., gr. 3·5; phenacet., gr. 2·5; caffein., gr. 0·5; calc. carb., gr. 1·05; acid cit. (exsic.), gr. 0·35.

INDICATIONS: Conditions that benefit from an analgesic and antipyretic.

DOSAGE: 1-2 tablets in water or as directed by the physician.

HOW SUPPLIED: In container of 500 tablets in foil-strip pack.

FIRST ISSUED: April 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

TESSALON

MANUFACTURER: CIBA Laboratories, Ltd., Horsham, Sussex.

DESCRIPTION: " Perles " each containing 100 mgm. nonaethylene glycol monoethyl ether p-n-butylamino-benzoate.

INDICATIONS: The suppression of useless non-productive cough as in bronchial carcinoma.

DOSAGE: *Adult:* One " perle " three or four times daily (if necessary dose may be doubled). Usually acts within twenty to thirty minutes and effects last three to eight hours.

HOW SUPPLIED: In containers of twenty-five, 100 and 500 " perles."

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

PERDILATAL FORTE tablets

MANUFACTURER: Smith & Nephew Pharmaceuticals, Ltd., Bessemer Road, Welwyn Garden City, Herts.

DESCRIPTION: Tablets containing 6 mg. of the phenyl iso butyl derivative of p-hydroxy ephedrine, buphenine hydrochloride.

INDICATIONS: Deep-seated peripheral vascular disorders: intermittent claudication, Raynaud's disease, thrombophlebitis, incipient gangrene.

DOSAGE: 1 to 2 tablets three times daily.

HOW SUPPLIED: In containers of fifty, 250 and 1,000 tablets.

FIRST ISSUED: March 1958.

REFERENCES: Riddell, Steel and McCoy, *Angiology*, 1954, **5**. 314. Walder, *Lancet*, 1956. **1**. 257. Pomeranze, Gadek, Pitman and Scherl, *Angiology*, 1955. **6**. 271. Stein, *Ann. intern. Med.*, 1956. **45**. 185.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

SCHERIPROCT ointment and suppositories

MANUFACTURER: Schering, A.G., Berlin, Germany.

DISTRIBUTORS: Pharmethicals (London), Ltd., 20 Gerrard Street, London, W.1.

DESCRIPTION: An ointment containing prednisolone, 0·15 per cent.; dibucaine chlorhydrate, 0·5 per cent.; hexachlorophen, 0·5 per cent.; menthol, 0·2 per cent. Suppositories each containing prednisolone, 1 mgm., dibucaine chlorhydrate, 1 mgm.; hexachlorophen, 2·5 mgm.; and menthol, 1 mgm.

INDICATIONS: Internal and external hæmorrhoids, anal fissures, pruritis ani and other proctological conditions.

METHOD OF USE: Ointment:—Apply two to four times daily. Suppositories:—One daily (but may be increased to a maximum of three in one day).

HOW SUPPLIED: Ointment in tube (with applicator nozzle) containing 10 gm. Suppositories in container of six.

FIRST ISSUED: March 1958.

SUPPLY RESTRICTIONS: Therapeutic Substances Act, Part 2.

NOTES: Cool storage desirable.

Cross reference for card index:

DISTAVAL (correction): Strength 25 mgm.
DISTAVAL FORTE tablets: Strength 100 mgm.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

DELTA-FENOX nasal spray

MANUFACTURER: Boots Pure Drug Co., Ltd., Station Street, Nottingham.

DESCRIPTION: An aqueous solution of adjusted tonicity and *pH* containing prednisolone, 0·01 per cent.; phenylephrine hydrochloride, 0·25 per cent.; and naphazoline nitrate, 0·025 per cent.

INDICATIONS: Nasal allergies—hay fever, acute and chronic allergic rhinitis.

DOSAGE: *Children (under 5 years):* At the physician's discretion; *(5–12 years):* Spray once into each nostril at night and in the morning or every four hours if necessary; *(over 12 years) and adults:* Spray twice into each nostril at night and in the morning or every four hours if necessary.

HOW SUPPLIED: In collapsible plastic bottle with spray attachment containing 15 mils of spray solution.

FIRST ISSUED: April 1958.

REFERENCES: *Ann. Allergy*, 1956. **14.** 44.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

STEMETIL ampoules

MANUFACTURER: Pharmaceutical Specialities (May & Baker), Ltd., Dagenham.

DESCRIPTION: Solution for injection containing 1·25 per cent. of prochlorperazine methanesulphonate.

INDICATIONS: In migraine, and migrainous and intractable vomiting where oral administration is precluded.

DOSAGE: *Adults*: Deep intramuscular injection of 1 mil (12·5 mgm.) for the treatment of migraine and intractable vomiting, which in the latter case should be followed by oral medication six hours later. *Children*: Intractable vomiting—deep intramuscular injection of 0·25–0·5 mil.

HOW SUPPLIED: In box of ten 1-mil ampoules.

FIRST ISSUED: March 1957.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

FERROIDS tablets

MANUFACTURER: Riker Laboratories, Ltd., Morley Street, Loughborough, Leics.

DESCRIPTION: Tablets containing iron aminoates 350 mgm. and aneurine hydrochloride, 1 mgm.

INDICATIONS: Iron-deficiency anæmias.

DOSAGE: One or two tablets three or four times a day.

HOW SUPPLIED: In tins of 100 and 1,000 tablets.

FIRST ISSUED: April 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

CORLAN pellets

MANUFACTURER: Glaxo Laboratories Ltd., Greenford, Middlesex.

DESCRIPTION: Each pellet contains 2·5 mgm. of hydrocortisone in the form of hydrocortisone hemisuccinate sodium, a water soluble compound.

INDICATIONS: For the treatment of simple aphthous ulceration in the mouth; also when aphthous ulceration complicates certain definite diseases, such as sprue, idiopathic steatorrhoea and ulcerative colitis.

DOSAGE: Minor aphthous ulceration: 1 pellet four times a day. Major aphthous ulceration: initial treatment as for minor condition then maintenance dose of 2 pellets a day or 4 for more severe cases. Dissolve slowly in close proximity to ulcers; not to be sucked.

HOW SUPPLIED: In tube of 20 pellets.

FIRST ISSUED: March 1958.

REFERENCES: *Brit. Med. Journal*, 1958. **i.** 603.

OCTAFLEX liquid dressing

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

Add to existing card:

New formulation gives harder gloss film. A transient stinging sensation occurs when the solution is applied to raw areas. The film may be removed by peeling off or by the use of ether or acetone.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

PREDSOL

MANUFACTURER: Glaxo Laboratories, Ltd., Greenford, Middlesex.

DESCRIPTION: Prednisolone disodium phosphate contained in:
DROPS FOR EYE OR EAR: 0·5 per cent. in a sterile, buffered isotonic solution.
EYE OINTMENT: 0·5 per cent. in a bland paraffin base.
NASAL DROPS: 0·1 per cent. in a buffered, isotonic solution.
SKIN LOTION: 0·25 per cent. in an aqueous medium.
SKIN OINTMENT, NO. 1 (non-greasy): NO. 2 (greasy): Each 0·5 per cent. in a water-miscible or greasy base.

INDICATIONS: Ear conditions: otitis externa and other inflammatory states—when infection is absent. Eye conditions: traumatic, infectious or irritant inflammatory states involving the anterior segment. Deeper tissue involvement may require systemic therapy. Skin conditions: anal and vulvar pruritis, contact dermatitis, allergic eczema, eczematoid reactions of eyes and ears, neurodermatitis, nummular and seborrhœic dermatitis. Vasomotor and non-seasonal rhinitis, hay fever.

METHODS OF USE: EAR: 2-3 drops instilled every two to three hours until condition is controlled after which the frequency may be reduced.
EYE: 1-2 drops instilled every one to two hours, with the use of the ointment at bed-time.
SKIN: The lotion or ointment to be applied as required. Present or suspected infection—antibiotic therapy is concurrently available with Predsol-N skin preparations.
VASOMOTOR AND NON-SEASONAL RHINITIS: 2 drops in each nostril four times a day until symptomatic relief, after which dosage is reduced to the minimum maintenance level.
HAY FEVER: 2 drops in each nostril four times a day. Symptomatic relief occurs in one to three days but dosage should be continued for a further three to four days, then reduced for two days. Recurrence is treated in a like manner.

HOW SUPPLIED: EAR OR EYE DROPS: In dropper vial containing three mils. EYE OINTMENT: In ophthalmic-nozzled tube containing 3 gm. NASAL DROPS: In dropper bottle containing 10 mils. SKIN LOTION: In plastic squeeze-bottle containing 20 mils. SKIN OINTMENTS: In tubes containing 5 and 15 gm.

FIRST ISSUED: May 1958.

SUPPLY RESTRICTIONS: Therapeutic Substances Act, Part 2.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 7, 1958

PREDSOL-N

MANUFACTURER: Glaxo Laboratories, Ltd., Greenford, Middlesex.

DESCRIPTION: Prednisolone disodium phosphate and neomycin sulphate contained in:
DROPS FOR EYE OR EAR: 0·5 per cent. of each in a sterile, buffered, isotonic solution.
EYE OINTMENT: 0·5 per cent. of each in a bland paraffin base.
SKIN OINTMENT, NO. 1 (non-greasy); NO. 2 (greasy): 0·5 per cent. of each in a water-miscible or greasy base.
NASAL SPRAY: 0·025 per cent. and 0·5 per cent. respectively with the addition of 0·025 per cent. of naphazoline nitrate in aqueous solution.

INDICATIONS: As for PREDSOL preparations but should be used when infection is present or suspected.

METHODS OF USE:
NASAL SPRAY: *Adults*: Three sprays should be made into each nostril while inhaling, or the preparation may be used as drops in which case 2-3 drops should be used.
Children: One or two sprays into each nostril while inhaling or when used as drops 1-2 should be instilled into each nostril every three hours. Ear and eye drops and skin and eye ointments should be used as for Predsol preparations.

HOW SUPPLIED: EAR OR EYE DROPS: In dropper vial containing 3 mils.
EYE OINTMENT: In ophthalmic-nozzled tube containing 3 gm.
SKIN OINTMENT: In tubes containing 5 and 15 gm.
NASAL SPRAY: In plastic spray bottle containing fifteen mils.

FIRST ISSUED: May 1958.

SUPPLY RESTRICTIONS: Therapeutic Substances Act, Part. 2.

NOTES ON NEW MEDICAMENTS

Comments on items given in Guide to New Medicaments (pp. 616–7), especially to show their relationship—pharmacological or chemical—with other products or compounds.

ANABOLEX.—*Chemistry:* Androstanolone. A derivative of testosterone, androstanolone differs from the parent drug only in lacking a double bond in the 4:5 position. That small change in structure is associated with a marked reduction in androgen potency, but other activities of the drug may remain unchanged, or may be enhanced. It has long been known that testosterone has a considerable anabolic effect on protein metabolism, but the androgenic properties of the drug frequently precluded its use in that way. Androstanolone has similar anabolic effects, but the virilising activity is so low that the drug may be used for its tissue-building action in both children and female patients. Nilevar, or norethandrolone, also described as 17 ∝ ethyl-17-hydroxy-19-nor-androst-4-en-3-one, is a drug with similar properties, and active orally; Durabolin, or 19-norandrostenolone phenyl propionate, is a compound with a prolonged action, and is given by intramuscular injection.

CAFDIS.—*Constituents:* Similar in composition to compound tablets of acetylsalicylic acid, but with added calcium carbonate and citric acid as in tablets of soluble aspirin. Those additions reduce gastric irritation and improve absorption. Antoin tablets are basically similar, but also contain codeine phosphate and nicotinamide; Codis is comparable with Cafdis, but has codeine phosphate in place of the caffeine.

CARMERIN.—*Constituents:* Acetyl carbromal, mephenesin and reserpine. Mephenesin produces some skeletal muscle relaxation by depressing nerve impulse transmission at the spinal cord level, whereas the alkaloid reserpine exerts a tranquillising effect by its action on the hypothalamus. The ureide acetylcarbromal has a central sedative action, and the combination of actions may have a synergistic effect.

Sedaltine is a similar preparation, containing carbromal, bromvaletone, rauwollia, mephenesin and aluminium hydroxide.

DELTA-FENOX. — *Constituents:* Prednisolone, phenylephrine and naphazoline. The two vasoconstrictors are intended to provide both prompt and sustained nasal decongestion. That also permits adequate penetration of the prednisolone, which has a powerful anti-allergic action when thus applied locally. Prolonged use is inadvisable, as local sensitivity reactions have followed the excessive use of nasal decongestants.

Cortibiotic nasal drops combine the anti-allergic and anti-inflammatory properties of prednisolone with the decongestive action of phenylephrine, together with framycetin (Soframycin) as an antibiotic to control any associated infection. Predsol-N spray is similar, but contains prednisolone phosphate, naphazoline and neomycin. Hydrospray represents hydrocortisone, neomycin and phenylpropanolamine. Efcortelan and Vasocort contain hydrocortisone and nasal decongestants, but no antibiotics.

DEGRANOL.—*Chemistry:* 1,6 bis (beta-chloroethylamino) 1,6-desoxy-D-mannitol dihydrochloride, also known as mannomustine. The compound has cytostatic properties similar to mustine or nitrogen mustard, but the toxic and irritant effects have been reduced by combination with mannitol. The drug is given intravenously in 5-10 mils of water or saline, and there is no risk of the necrosis at the site of injection that occasionally arises after mustine therapy. A similar product with a reduced toxicity is Nitromin or Mitomen (nitrogen mustard oxide), which may be given by intramuscular or intravenous injection. Trillekamin, or tri-(2-chloroethyl) amine, resembles mustine in its action and irritant properties. Other compounds of related action or structure include Tretamine (triethanolamine) active orally, Myleran (bisulphan) with a selective action on myeloid tissue and Leukeran (chlorambucil). The latter compound is better tolerated than some of the earlier cytostatic agents. Puri-nethol (mercaptopurine) is used mainly for leukæmia in children, as are the folic-acid antagonists such as aminopterin.

FERROIDS. — *Chemistry:* Iron aminoates. The substance is not a true iron salt, but an iron-containing complex. The metal is sequestered or chelated with a mixture of amino acids derived from protein by hydrolysis. In that form the iron is firmly bound to the protein complex, is non-reactive, does not ionise in solution, and is therefore free from the astringency characteristic of common iron salts.

In the gastro-intestinal tract the complex is broken down, and the iron is released in a form readily available for absorption.

Sytron is another product based on a similar principle, but using mono-sodium ethylene diamine tetra-acetic acid as the chelating agent, and preparations of the above types have advantages when the inorganic or organic salts of iron are not tolerated.

OCTAPHEN. — *Chemistry:* β-p-tert:-octylphenoxyethyl-diethyl benzyl ammonium chloride, also known as phenoctide. This quaternary ammonium detergent and bacteriostat is the antiseptic used in Octaflex, a plastic dressing that replaces Penoflex, which contained phenylmercuric dinaphthylmethane disulphonate as the bacteriostatic agent. The new product dries more rapidly, and gives a more durable protection. Other plastic skin protectives include Nobecutane, which contains acrylic resins as the base, Pe.Ve.Gel, a polyvinyl alcohol jelly, and Portex plastic skin. The last-named contains phenyl salicylate, resorcin and eugenol in a waterproof, plastic base.

PREDSOL. — *Chemistry:* Prednisolone disodium phosphate. This derivative is two thousand times more soluble than prednisolone base or hydrocortisone, and that higher solubility, by ensuring maximum contact with the tissues, evokes an increased therapeutic response. Corticosteroids, though powerful anti-inflammatory drugs, have no action against infective processes, and, in the Predsol-N range of preparations, neomycin is included to control any associated infection. Cortibiotic products contain prednisolone with the antibiotic framycetin (Soframycin). Hydeltracin and Hydrodeltatone contain prednisolone with neomycin; Florinef represents fluorohydrocortisone with neomycin and gramicidin, and many preparations are available exhibiting hydrocortisone with neomycin to provide antibiotic cover, frequently essential clinically.

SCHERIPROCT.—*Constituents:* Prednisolone, dibucaine, hexachlorophene and menthol. This preparation exploits the properties of prednisolone for the treatment of hæmorrhoids. The specific anti-inflammatory and anti-allergic action of prednisolone is reinforced by the analgesic effects of dibucaine and menthol, and wide antibacterial cover is given by the non-irritant antiseptic hexachlorophene. Proctosedyl suppositories and ointment contain hydrocortisone with the antibiotic framycetin (Soframycin), cinchocaine, and aesculin (which has an astringent and hæmostatic action).

STEMETIL.—*Chemistry:* 1-[3-(3-chloro-10-phenothiazinyl)-propyl]-4-methyl-piperazine dimalcate, also known as prochlorperzine. This compound resembles chlorpromazine in its general pharmacological activity, but the degree and nature of response differs in certain respects. It is a more active anti-emetic than chlorpromazine but has less action on reflex activity, and is less effective in potentiating the action of anæsthetics and analgesics. The chief therapeutic indication is in the prophylaxis and treatment of migraine. Other phenothiazine derivatives such as the antihistamine promethazine (Phenergan) are also useful in migraine. Ergotamine has long been the standard remedy for migraine, but the side-effects of the drug frequently prevent the administration of an adequate dose. The addition of an antihistamine can reduce the side-effects, and thus permit larger doses to be given. Migril (ergotamine, cyclizine and caffeine), is a preparation of that type; Orgraine contains ergotamine with phenacetin, caffeine, atropine and hyoscyamine, and Cafergot represents ergotamine with caffeine only.

TESSALON. — *Chemistry:* Nonaethylene glycol monomethylether p-n-butylaminobenzoate. This compound, which has some structural relationships with amethocaine, has a unique action as a cough depressant. A cough is the final result of a stimulus, and the sensory endings where the cough originates are sensitive not only to stimuli but also to stretching. Tessalon reduces the sensitivity of the stretch receptors which triggers a chain reflex. It also has the secondary effect of depressing the transmission of stimulating impulses through polysynaptic ganglia. In these respects Tessalon differs from the older cough depressants, such as codeine, which exert their effects chiefly on the respiratory centre. Examples of the alkaloidal type of cough depressant include pholcodine preparations such as Ethnine and Memine; narcotine preparations are exemplified by Coscopin and Nicolanc; synthetic cough centre depressants include Sedulon, Tucal and Toclase.

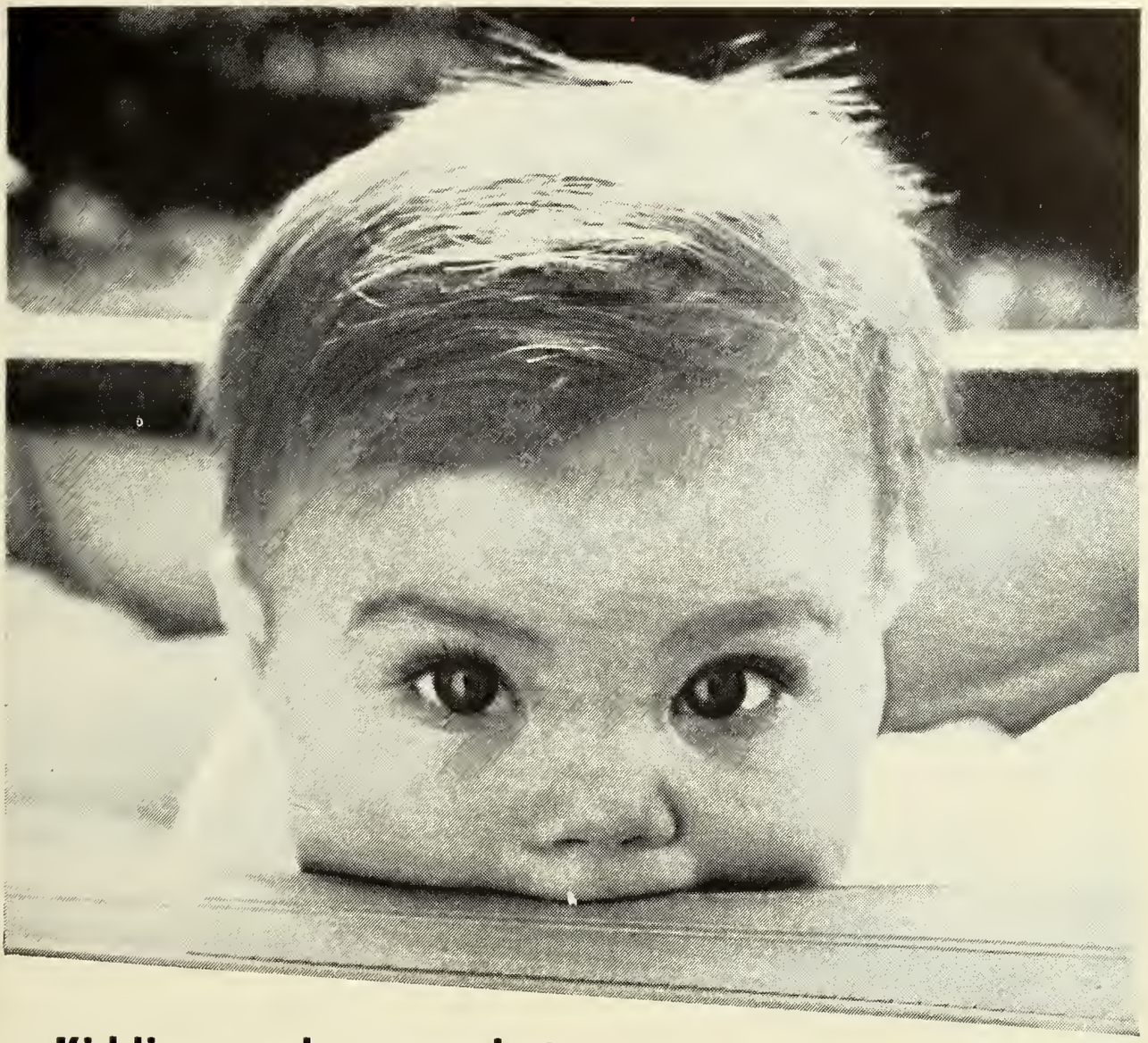
AMERICAN LISTED DRUGS

The American Medical Association's Council on Drugs has recently evaluated the following:—

ACENOCOUMAROL. — 3-(α-Acetonyl-4-nitrobenzyl)-4-hydroxycoumarin. One of the most potent anticoagulant drugs, with a speed of action between that of bishydroxycoumarin and that of ethyl biscoumacetate. Oral administration provides a peak of activity within 24-48 hours, with a return to normal prothrombin levels within 48 hours. Overdosage is treated by the omission of the next dose, but emergency hæmorrhage may be checked by the vitamin K_1 compound phytonadione. Induction requires 16-28 mgm. on the first day and 8-16 mgm. on the following day. Average maintenance ranges between 2-10 mgm. daily. Data supplied by Geigy Pharmaceuticals Division, Geigy Chemical Corporation. Proprietary name: Sintrom.

ANILERIDINE HYDROCHLORIDE. — Ethyl 1-(4-aminophenethyl)-4-phenylisonipecotate dihydrochloride. Oral doses provide analgesia for 2-4 hours, but the compound has the disadvantage of inconsistent action common to oral analgesics as compared with those administered parenterally. Normal dosage is based upon 25 mgm. every six hours, but may be increased to 50 mgm., or the frequency of dose may be increased. Data supplied by Merck Sharp & Dohme. Proprietary name: Leritine dihydrochloride.

ANILERIDINE PHOSPHATE. — Ethyl 1-(4-aminophenethyl)-4-phenylisonipecotate phosphate. A synthetic analgesic compound administered parenterally and having a potency two-and-a-half times that of meperidine and about one-quarter that of morphine. A single subcutaneous or intramuscular injection is 25-50 mgm., which may be repeated in four to six hours; obstetric analgesia requires 50 mgm., repeatable in three to four hours. Slow intravenous drip administration in support of anæsthesia is based upon the preparation of a solution of 50–100 mgm. in 500 mils of a 5 per cent. dextrose solution. A proportionate volume, corresponding to 5–10 mgm., is infused at a rate of 0·6 mgm. per minute. Within those dosage ranges sedative and hypnotic effects are minimal. In addition to its basic analgesic action the compound has been shown to be mildly antihistaminic, spasmolytic and antitussive. Parenteral administration ensures peak plasma levels within one hour, with a duration of action of up to one hour after intravenous injection but from 1–2 hours after intramuscular injection. Tissue irritation is minimal with dilute solution; side-effects are comparable with those of meperidine. Respiratory depression is the chief hazard, especially in elderly patients, but particular attention is necessary if the drug is used with other narcotics, sedatives or anæsthetics. Addiction is a risk. Data supplied by Merck Sharp & Dohme. Proprietary name: Leritine phosphate.



Kiddies need no coaxing with this new form of Achromycin V

Here's an entirely new form of ACHROMYCIN V especially designed to simplify the control of infection in children and infants. ACHROMYCIN V Pediatric Drops Aqueous—delightfully flavoured with orange—make a particular appeal to the child who turns awkward when it's time to take his medicine.

The product contains ACHROMYCIN tetracycline with citric acid and sodium citrate for more rapid absorption and higher levels of the antibiotic in the blood.

Thus infection can be promptly controlled and the child's recovery accelerated. Accurate dosage can be measured drop by drop from the pliable plastic bottle (5 mg. of tetracycline per drop). The product can be given directly onto the tongue or added to water or fruit juice.

ACHROMYCIN* V

TETRACYCLINE WITH CITRIC ACID AND SODIUM CITRATE

* REGD. TRADEMARK

PEDIATRIC DROPS AQUEOUS

Supplied in dropper-type plastic bottles of 10 cc.

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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JUNE 4: For the second successive week a Government department has provided the most interesting feature of the week for the CRUDE DRUGS market. On June 2 the import duty formerly levied on fourteen crude drugs was abolished by the Customs and Excise.

The drugs involved are:—Styrax; and in a dried state the following: Aconite root, arnica flowers, belladonna root, cocillana bark, colocynth pulp, cascara bark, frangula bark, grindelia herb, kava kava rhizomes, krameria root, male fern (*dryopteris felix-mas*) rhizomes, rhubarb (*rheum palmatum*) rhizomes, and wild cherry bark. It will be recalled that some months ago the Board of Trade stated that they were considering an application for the exemption from import duty of those items (*C. & D.*, December 14, 1957, p.631). Where duty has been paid by holders it may still be reflected in the price but already lower prices are generally circulating for many items. CHERRY BARK and BELLADONNA ROOT are both down by fourpence per lb.; COLOCYNTH PULP by threepence and COCILLANA by one penny. CASCARA is lower by 20s. per cwt., and is expected to ease further when the new crop arrives. Among SPICES, PEPPER was easier and GINGER continued its downward trend. There were quotations again for white SQUILL for shipment but the spot market is still bare. Trading in crude drugs and ESSENTIAL OILS was severely hampered by the unofficial strike of dockers in London. Parcels, even though landed and warehoused, could not be got out of public warehouses, and export trade was virtually at a standstill.

CAJUPUT and American CEDARWOOD OILS were both lower by sixpence per lb., and imported DILL by 6s. per lb. The various ORANGE OILS were mainly dearer.

Pharmaceutical Chemicals

AMIDOPYRIN.—Minimum rate is 25s. 2½d. per lb. with usual differentials for small.

AMYLOBARBITONE. — B.P.C. is 77s. 6d. per kilo for minimum 25-kilo lots and SODIUM, B.P.C., 87s. 6d. per kilo.

ATROPINE.—Rates for 16-oz. (500-gm):

	per oz.		per kilo	
	s.	d.	s.	d.
ALKALOID	34	0	1198	0
HYDROCHLORIDE ..	31	0	1093	0
METHONITRATE	34	0	1198	0
METHYLBROMIDE ..	33	6	1181	0
SULPHATE	29	0	1022	0

BUTOBARBITONE. — B.P.C. is 82s. 6d. per kilo in minimum 25-kilo lots.

COCAINE.—For 16-oz. lots the price of the HYDROCHLORIDE is 91s. 6d. per oz. and ALKALOID, 101s. Subject to D.D.A. regulations.

CREAM OF TARTAR.—Rates for the home trade are now as follows:—1-ton lots, 321s. per cwt.; 10-cwt., 232s.; 5–9-cwt., 233s.; 2–4-cwt., 234s.; 1-cwt., 235s.

CYCLOBARBITONE.—B.P.C. and CALCIUM in 25-kilo lots or over is 82s. 6d. per kilo.

HEXOBARBITONE. — In 25-kilo lots the price is 115s. per kilo. SODIUM SALT is 125s.

MAGNESIUM CARBONATE.—Minimum bulk rate for LIGHT is 121s. per cwt.; HEAVY is 160s. per cwt. for 5-cwt. lots and about 130s. per cwt. for 1-ton lots.

MAGNESIUM CHLORIDE. — One-cwt. lots are quoted at 1s. 10s. per lb.; 5-cwt., 1s. 7d.

MAGNESIUM HYDROXIDE.—Makers' prices for B.P.C. are 1-cwt. lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

MAGNESIUM OXIDE, B.P.—Bulk rates are as follows:—LIGHT, 3s. 3d. per lb., and HEAVY, 5s. 10d. per lb.

MAGNESIUM PEROXIDE. — Price (per lb.) for 1-cwt. lots of B.P.C. (15 per cent.) is 3s. 11d.

MAGNESIUM SULPHATE. — Quotations for B.P. in minimum 1-ton lots vary between £18 and £21 per ton according to size of crystal and manufacturer. Exsiccated is £42 per ton. All ex works.

METHADONE HYDROCHLORIDE. — Price is from 2s. to 2s. 6d. per gm. as to quantity. Subject to D.D.A. regulations.

OPIATES.—Home trade prices (per oz.) are as follows (subject to D.D.A. Regulations):—

	35 oz. and over		Under 35 oz.	
	s.	d.	s.	d.
CODEINE				
PHOSPHATE	41	0	42	0
HYDROCHLORIDE ..	47	3	48	3
SULPHATE	47	3	48	3
ALKALOID	54	0	55	0
MORPHINE				
ACETATE	50	0	51	0
HYDROCHLORIDE ..	50	0	51	0
SULPHATE	50	0	51	0
TARTRATE	60	0	61	0
ALKALOID	61	3	62	3
ETHYLMORPHINE				
HYDROCHLORIDE ..	54	0	55	0
ALKALOID	63	3	64	3
DIAMORPHINE				
HYDROCHLORIDE ..	54	9	55	9
ALKALOID	59	9	60	9

PARAFFINS. — Prices to wholesale distributors are:— *Liquid*: HEAVY, B.P., £107 17s. 6d. per ton; LIGHT, B.P., £87 15s.; *Technical White oils*, £79 5s. for the LIGHT and £92 15s. for the MEDIUM, all in 40–50 gall. returnable loaned drums, delivered U.K. *Soft*: WHITE, medium consistency is now £110 15s. per ton. WHITE, soft consistency, £107 7s. 6d., and YELLOW, £88 10s. all B.P., in non-returnable drums delivered.

PARALDEHYDE. — B.P. in 12-winchester lots is 2s. 7d. per lb.; 10-gall. carboy, 2s 2d., and 5 carboys, 2s. Stabilised in 40-gall drum lots, 166s. per cwt.; technical, 149s. per cwt.

PENTOBARBITONE SODIUM. — Minimum 25-kilo lots are 125s. per kilo.

PETHIDINE HYDROCHLORIDE. — B.P. 100-gm. lots, 100s. Subject to D.D.A. regulations.

PHENOBARBITONE. — Under 25-kilo lots are 52s. 3d. per kilo and SODIUM, 55s. 6d.

PHOSPHORIC ACIDS.—B.P. (s.g. 1·750) is quoted at 1s. 4d. per lb. in 10-carboy lots. 1–2 carboys, 1s. 8d. per lb. B.P. 1914 is quoted from 1s. 2d. to 1s. 6d. per lb. HYPOPHOSPHOROUS, B.P.C., in winchesters is from 7s. 5d. to 8s. 6d. per lb., as to quantity.

PILOCARPINE.—In 2-kilo lots prices are: HYDROCHLORIDE, 1,013s. per kilo; NITRATE, 925s.

PIPERAZINE. — ADIPATE is from 32s. 6d. to 36s. 6d. per kilo; CITRATE from 32s. 6d. to 36s. 6d. and TARTRATE, 38s. 6d.

SALICYLAMIDE.—Price (per lb.) for 1-cwt. lots is 8s. 6d.

SULPHACETAMIDE. — Quotations (per lb.) for 1-cwt. lots are 24s. 6d. The SODIUM derivative is 30s.

SULPHAGUANIDINE.—Manufacturers' rates for 1-cwt. lots are about 11s. per lb.

SULPHANILAMIDE. — Manufacturers' rates for 1-cwt. lots are 5s. 9d. per lb.

SULPHATHIAZOLE. — Price (per lb.) for 1-cwt. lots is 16s. 6d.

SULPHOCARBOLATES—SODIUM PHENOLSULPHONATE, B.P.C., 1949 (powder) is 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., 1949, is 5s. 6d.

THEOPHYLLINE.—ALKALOID, ANHYDROUS, is quoted at 20s. per lb. and B.P., 19s.; AMINOPHYLLINE, 18s. 6d. per lb.

Alcohol

BRITISH SPIRIT per proof gall.:—

Ethyl Alcohol: (95 per cent. Gay Lussac. 66 *o.p.*); where the number of proof gall. taken over any one year ended March 31 is 300,000 or over the price is 4s. 0¼d.; 200,000 and less than 300,000, 4s. 0½d.; 100,000 and less than 200,000, 4s 1¼d.; 50,000 and less than 100,000, 4s. 1¾d.; 10,000 and less than 50,000, 4s. 2¼d.; 2,500 and less than 10,000, 4s. 2¾d. Prices are exclusive of duty and are for tank wagon lots. In 40-gall. drums there is a surcharge of 1d. per proof gall.

The following grades are subject to a premium on the above prices as set out in the next paragraph:—

Absolute Alcohol, 95·5 per cent., 74·5 *o.p.*, 3d. more per proof gall., the special high strength (99·9 per cent., 75·2 *o.p.*), 5d. more. *Doubly-Rectified Alcohol* (*S.V.R.*), 95·8 per cent., 68 *o.p.*, is 3d. more and *P.I. Rectified Alcohol*, 96·1 per cent., 68·5 *o.p.*, 8d. more. *R. R. Absolute Alcohol* (re-rectified, 99·7 per cent.. 75 *o.p.*), 14s. 10d. per bulk gall. net.

Methylated Spirit

METHYLATORS' rates per bulk gall. in Great Britain are as follows:—

Industrial Methylated spirit: Strength 61 *o.p.*, 500 gall. and over, 5s. 11d.; 100 gall. and under 500 gall., 6s. 2d.; 40 gall. and under 100 gall., 6s. 5d.; 10 gall. and under 40 gall., 6s. 10d.; 5 gall. and under 10 gall., 7s. 3d. Strength 64 *o.p.*, ½d. per gall. 66 *o.p.* (B.P.), 1d.; 68 *o.p.*, 3½d. more than the above rates with 74 *o.p.* at 6s. 8½d., 6s. 11½d.. 7s. 2½d., 7s. 7½d. and 8s. 0½d. per gall. for similar quantities. Tank wagon delivery is 1½d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 7s. 2½d. (tank wagon) for 500 gall. to 8s. 8d. for 5–10 gall. (in drums) for 61 *o.p.*

Pyridinised industrial methylated spirit: Strength 66 *o.p.*, 500 gall and over, tank wagon delivery, 6s. 2d..; 100 gall. and under 500 gall. (40/50 gall. drums), 6s. 6½d.; 40 gall. and under 100 gall., 6s. 9½d.; 10 gall and under 40 gall., 7s. 2½d.; 5 gall. and under 10 gall., 7s. 7½d.

Mineralised methylated spirit: Strength 64 *o.p.* in one delivery, 100 gall. and under 500 gall., 6s. 6½d.; 40 gall. and under 100 gall., 6s. 9½d.; 10 gall. and under 40 gall., 7s. 2½d.; 5 gall and under 10 gall., 7s. 7½d.

Methylated resin finish is 3d. per gall. over and *methylated shellac finish* is 1s. per gall. over the prices of pyridinised methylated spirit.

Terms:—Deliveries free and carriage paid on returned empties; net cash.

Crude Drugs

ACONITE — Spot supplies of Spanish *napelius* are 2s. 9d. per lb.

AGAR.—Kobe is 11s. 6d. per lb., duty paid. New crop for June shipment, 9s. 4d., c.i.f.

ALOES. — Cape prime on the spot is 257s. 6d. per cwt.; shipment, 240s., c.i.f.

BELLADONNA.—Herb is 2s. 6d. per lb. on the spot. ROOT 1s. 6d. spot; shipment, 1s. 3d., c.i.f.

CAPSICUMS. — East African are from 150s. to 200s. per cwt. on the spot.

CASCARA.—Spot 1957 peel, 265s. per cwt. duty free. 1958 peel, June–July shipment, 205s., c.i.f.

CHERRY BARK. — Thin natural is 1s. 5d. per lb., duty free and rossed 1s. 11d.,

CHILLIES. — Spot Mombasa are 160s. per cwt. and Zanzibar, 220s.

CLOVES. — Zanzibar on the spot are quoted at 3s. 3d. per lb., shipment, 2s. 8d., c.i.f.

COCHINEAL.—Silver-grey Peruvian quoted 7s. 9d. per lb., c.i.f.; spot: Canary Isles black-brilliant 25s.; silver-grey, 18s. 6d.

COCILLANA.—Bark is 1s. 6d. per lb. on the spot.

COLOCYNTH PULP.—Spot, 3s. 9d. per lb., duty free.

DIGITALIS LEAF.—Purpurea (1956 crop), is offered at 1s. 2½d. per lb., c.i.f.; 1957 crop, 2s. 6d. to 2s. 7d., c.i.f.

ERGOT.—Portuguese is 5s. 6d. per lb., c.i.f., for prompt shipment and 6s. spot, American, 5s. 9d., spot.

FRANGULA.—Spot is now 105s. per cwt., duty free.

GENTIAN.—French is 175s. per cwt. on the spot.

GINGER. — African, 95s. per cwt. on the spot; new-crop for shipment, 95s., c.i.f. Jamaican No. 3 on the spot is 325s. per cwt. June shipment (new crop), 290s., c.i.f. Cochin spot, 95s.

GRINDELIA.—Herb is quoted at 2s. 6d. per lb., duty free.

GUM ACACIA.—Kordofan cleaned sorts are 132s. 6d. per cwt. on the spot; June shipment, 122s. 6d., c.i.f.

HENNA.—Indian on the spot is 75s. per cwt. Origin not quoting for shipment.

HONEY. — Australian light-amber is 107s. 6d. to 112s. 6d. and medium amber 97s. 6d. to 102s. 6d. Argentine 125s. to 130s.; Jamaican 135s. to 140s.; New Zealand clover, 160s. to 170s.; all per cwt. on the spot.

HYDRASTIS. — Spot 31s. per lb.; forward, from 28s. to 29s. 6d., per lb., c.i.f.

HYOSCYAMUS.—Dutch leaves (*niger*), are 1s 6½d. per lb., c.i.f., prompt shipment.

IPECACUANHA.—Colombian for shipment is 54s. per lb., c.i.f.; Matto Grosso, 54s., c.i.f. No offers of Nicaraguan or Costa Rican.

JALAP ROOT. — Brazilian untested is offered at 2s. per lb. on the spot.

KARAYA. — No. 1 gum on the spot is quoted at 220s. per cwt. and No. 2 at 150s.

KOLA NUTS. — Jamaican are offered at about 8d. per lb. spot, and 6½d., c.i.f. African 5d. to 5¼d. spot and 4½d., c.i.f.

KRAMERIA.—Bark is quoted at 90s. per cwt., duty free.

LANOLIN. — ANHYDROUS, B.P., is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LEMON PEEL. — Spot is offered at 5s. per lb.

LIQUORICE. — Natural root: Persian to arrive is 45s. per cwt. Block juice: Anatolian, 200s. to 210s. per cwt., as to quantity. Italian stick from 310s. to 476s. per cwt. Spray-dried extract, 2s. 10½d. per lb.

LOBELIA HERB. — Spot offers are from 4s. 7d. to 4s. 9d. per lb. Dutch for shipment, 4s. 4d., c.i.f.

MACE. — Whole on the spot is from 23s. 6d. per lb.

MENTHOL.—Chinese is 50s. per lb., duty paid and 46s. 9d., c.i.f.; Brazilian, spot, 36s., duty paid, shipment, 33s., c.i.f. Formosan for shipment, 37s., c.i.f.

MERCURY. — Price per flask (76-lb.) is £76 on the spot.

NUTMEGS. — West Indian 80's, 17s. per lb., spot; sound unassorted, 13s. 6d.

ORANGE PEEL. — West Indian bitter quarters are 11d. per lb.; Spanish, 1s. 3d. to 1s. 6d. as to quality; thin-cut Tripoli, 2s. 3d.

ORRIS ROOT. — Florentine is 330s. per cwt. Firm at origin.

PAPAIN. — Shipment (c.i.f.) value is 28s. 6d. per lb. for East African.

PEPPER.—White Sarawak on spot is a little easier at 2s. 6d. per lb., spot. June shipment now quoted at 2s. 5d., c.i.f. Black Sarawak is offered at 1s. 6d., spot, and June shipment at down to 1s. 5½d., c.i.f. Black Malabar is unchanged at 220s. per cwt. on spot. The shipment price is 195s., c.i.f.

PODOPHYLLUM. — *Emodi* spot value around 200s. per cwt. *Peltatum*, spot, 4s. 3d. per lb.; shipment is short at 450s., c.i.f.

QUASSIA. — Chips on spot are offered at 55s. per cwt. and for shipment at 32s. 6d., c.i.f.

RHUBARB.—Chinese offering about 6s. per lb., as to quality. Best grades not available on spot.

SAFFRON.—Spanish is quoted at 245s. per lb.

SARSAPARILLA.—Jamaican native red on the spot is 2s. 5d. per lb. Shipment, 2s., c.i.f.

SEEDS. — (Per cwt.).—ANISE.—Cyprian, 167s. 6d. and Turkish, 145s., duty paid, spot, London. CARAWAY.—Dutch in poor demand 85s., spot duty paid sellers. CELERY.—Indian is unchanged on spot at 175s. The new-crop shipment price is again easier at 122s. 6d., c.i.f. CORIANDER. —Spot, Moroccan 62s. 6d. and Rumanian, 60s., both duty paid. For shipment Moroccan new-crop June–July, 48s., c.i.f., quoted. CUMIN.—Cyprian on spot is 200s. No Iranian offering. Cyprian for shipment quoted at 185s., c.i.f. DILL.—Indian spot is 67s. 6d. The shipment price is 59s., c.i.f. FENNEL.— Indian offering at 180s., spot and Chinese at 160s., duty paid. FENUGREEK.—Moroccan is quiet at 50s., duty paid. MUSTARD.—English 65s. to 80s., according to quality with good quality scarce.

SQUILL. — White is unobtainable on the spot. For shipment 65s. per cwt., c.i.f., is quoted.

TONQUIN BEANS.—Para on the spot are offered at 8s. 6d. per lb. Shipment, 7s. 6d., c.i.f.

TURMERIC.—Madras finger is at 55s. to 57s. 6d. on spot. For June shipment, 56s. 6d., c.i.f., quoted.

WAXES. — (Per cwt.). BEES'.—Dar-es-Salaam, spot, 525s., shipment, 500s., c.i.f. nominal; Sudanese, 450s., spot, in bond, and 445s., c.i.f. Abyssinian, spot, 470s. in bond; shipment, 445s., c.i.f. Benguela spot, 510s., duty paid; shipment, 465s., c.i.f. CANDELILLA. — Spot, 460s. CARNAUBA.—Fatty grey, spot, 565s.; for shipment, 550s., c.i.f. Prime yellow, spot, 985s.; shipment, 930s., c.i.f.

Essential and Expressed Oils

ALMOND.—British oil is 8s. 3d. per lb. Moroccan, 7s., in bond.

AMBER.—Rectified on the spot is 1s. 6d. per lb.

ANISE.—Chinese, from 9s. 3d. per lb., spot; shipment, 8s., c.i.f.

BAY.—West Indian is 12s. 6d. per lb. on the spot.

BERGAMOT. — Spot supplies are from 86s. 6d. per lb.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

CAJUPUT. — Spot supplies are from 10s. per lb.

CARAWAY.—English-distilled is offered at 55s. and imported from 26s. to 27s. 6d. per lb.

CEDARWOOD.—1-cwt. lots of American are 5s. per lb. and Kenya, 4s.

CUBEB.—Small spot supplies of imported are 65s. per lb.

DILL.—B.P. imported is 30s. per lb.

GERANIUM.—Bourbon is 130s. per lb. on the spot and 125s., c.i.f. Algerian, 92s. 6d.

GINGER. — English-distilled oil is 160s. per lb. Imported: Jamaican, 130s.; Chinese, 100s., duty paid.

LEMON.—Prices of B.P. oil are from 10s. to 47s. 6d. per lb. on the spot according to quality. Californian for snipment, 25s. to 28s. 6d., c.i.f.

NUTMEG. — Imported B.P. oil is about 95s. per lb. English-distilled, 125s. to 165s. as to quantity.

ORANGE.—Spot quotations of sweet oil include Floridan at 12s. 6d. per lb.; Californian, 15s.; West Indian, 12s.; West African, 24s. 6d.; Israeli 16s. 6d. For shipment, Californian cold-pressed, U.S.P., is nominal at 23s. 11d., c.i.f.; distilled, 8s. 11d., c.i.f. Terpeneless is 200s. per lb., spot; bitter around 27s., as to sample.

PALMAROSA.—East Indian, 25s., spot, and 19s. 6d., c.i.f.

PATCHOULI.—Penang is 27s. 6d., in bond, and 25s., c.i.f. Seychelles is quoted at 31s., spot.

PEPPERMINT. — *Arvensis*: Chinese is scarce at 24s. 9d. per lb. on the spot and 22s. 6d., c.i.f. Brazilian, 10s., spot and 8s., c.i.f. Formosan, 17s., spot; new-crop for June–July shipment, 14s. 3d., c.i.f. *Piperita*: Italian "Mitcham"-type, from 42s. 6d. to 50s.; American, 27s. 6d. to 30s., as to origin.

RUE.—Spanish is 25s. per lb. on the spot.

SAGE.—Spanish is 8s. 6d. per lb.; Dalmatian, 37s. 6d.

YLANG YLANG.—Spot is from 45s. per lb.

UNITED STATES REPORT

NEW YORK, JUNE 3: PYRIDOXINE was cut from $245 to $218 per kilo to meet a competitive situation and HYDROCORTISONE was lowered 30 cents to $2·90 per gm. Synthetic *lævo* MENTHOL is now $5·50 a lb. (down ten cents). ATROPINE is higher with the ALKALOID $5·75 per oz. (up 75 cents) and the SULPHATE $5 (up 50 cents). Also higher is STRYCHNINE with the powdered SULPHATE $1·15 per oz. (up 30 cents) and the ALKALOID, $1·20 (10 cents). BRUCINE advanced sharply to 72 cents an oz. for the ALKALOID (up 32 cents), and 69 cents for the SULPHATE (33 cents). ALOIN gained 10 cents to $3·25 a lb. EMETINE HYDROCHLORIDE moved up $2 to $42 per oz. Higher per lb. were Bourbon VANILLA BEANS at $9·25 (up 25 cents), and Asiatic STYRAX at $2·35 (ten cents). Lower per lb. were SENEGA at $2·35, down 30 cents, and ERGOT, at $1·35 (down 45 cents). Spanish ROSEMARY OIL advanced ten cents to $1 a lb., but sweet ALMOND OIL at 90 cents was down 10 cents. PIMENTO LEAF, at $1·85, was down 15 cents and CARDAMOM at $45, was down 50 cents.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the " Trade Marks Journal," May 21.

For sulphur and preparations containing sulphur, all for pharmaceutical and veterinary purposes (5)

THIOBANE, 769,182, by Parke, Davis & Co., Detroit, Michigan, U.S.A., and Hounslow, Middlesex.

For disinfectants, sanitary substances, medicated preparations for the skin and deodorants, all in gel form (5)

FRAIGEL, 770,148, by Consortium Méditerranéen de Parfumerie, Monaco.

For all goods (5)

BIPHENIDYL, 771,703, by Dr. Karl Thomae, G.m.b.H., Biberach on Riss, Germany.

METILON, 772,116, by Parke, Davis & Co., Detroit, Michigan, U.S.A., and Hounslow, Middlesex.

AMPLEX, 773,753, by Ashe Laboratories, Ltd., Leatherhead, Surrey.

CYSTAMEZ, 774,163, by Imperial Chemical Industries, Ltd., London, S.W.1.

For insecticides, fungicides and weed-killing preparations (5)

MELANIDE, 772,669, MESANIDE, 773,086, by Plant Protection, Ltd., Yalding, Kent.

For bandages, material prepared for bandaging, medical and surgical plasters, and surgical dressings (5)

POLYNET, 773,084, by Vernon & Co., Ltd., Preston, Lancs.

For germicides (5)

GERMISTAT, 773,587, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne.

For deodorants, disinfectants, insecticides, fungicides and preparations for killing weeds and destroying vermin (5)

RACALET, 774,534, by Racasan, Ltd., Ellesmere Port, Ches.

For bandages; and plasters and dressings, all for medical or surgical purposes (5)

MELOLIN, 774,591, by T. J. Smith & Nephew, Ltd., Hull.

For flash lamps for photographic purposes (9)

COSY, 762,284, by North Staffs Photographic Services, Newcastle, Staffs.

For all goods (10)

SURGILAR, 764,235, SURGILOPE, 764,237, by American Cyanamid Co., New York, U.S.A.

SPRAYMISER, 773,024, by Rexall Drug Co., Ltd., Loughborough, Leics.

For non-medicated toilet paper (16)

NORVEX, 774,102, by Norvic Paper Co., Ltd., London, E.C.1.

For containers and spraying devices, and combinations thereof (21)

SPRAYMISER, 773,025, by Rexall Drug Co., Ltd., Loughborough, Leics.

From the " Trade Marks Journal," May 28

For brightening and bleaching agents used in industry (1)

UVITEX, 761,769, by CIBA, Ltd., Basle, Switzerland.

PRINT AND PUBLICITY

COMMERCIAL TELEVISION

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies.

June 15-21

LONDON

Airwick (3). Ajax cleanser. Alka Seltzer. Amami wave set (3). Andrews liver salt (3). Arrid Roll-on (3). Bartex sunglasses. Beecham's powders. Bristow's shampoo. Brylcreem (3). Carter's little liver pills. Colgate dental cream. Cooper's aerosols (2). Damaskin. Dinneford's magnesia (2).

Eno's Fruit Salt. Flit press-button spray (2). Frococlone. Fynnon salt. Ingram's shaving cream. Knight's Castile soap (7). Larson's Swedish milk diet. Lorelox. Lucozade (5).

Macleans tooth-paste. Max Factor preparations. Milk of Magnesia (3). Morny preparations (2). Mothaks (2). Nair (2). Nervone. Optrex (2). Optone (2). Parke, Davis shaving cream (3). Phensic (3). Phosferine (2). Phyllosan (4). Ponds Angel Face (4). Robinson's lemon barley water (4). Robinade (4).

Saxin (6). Spray Tan. Spratt's (7). Sprinkleen (2). Sun-orange Quosh (2). Twink (3). Vosene shampoo (2). Yeast-Vite. Yeast-Pac (2).

MIDLAND

Airwick (3). Ajax cleanser. Alka Seltzer (2). Amami wave set (3). Andrews liver salt (3). Arrid Roll-on. Bartex sunglasses. Beautyflo. Beecham's powders. Bristow's shampoo. Brylcreem (3). Carter's little liver pills (3). Colgate's dental cream. Cooper's aerosols (2). Dabitoff.

Eno's Fruit Salt (2). Flit press-button spray (2). Fynnon salt. Ingram's shaving cream (3). Iron Jelloids. Ibcol (6). Knight's Castile soap (7). Larson's Swedish milk diet (2). Lorelox. Lucozade (4).

Maclean's indigestion remedies, tooth-paste. Max Factor preparations (2). Mellajuce preparations (2). Milk of Magnesia tablets (2). Mothaks (2). Optrex. Optone (2). Phensic (3). Phosferine (3). Phyllosan (3). Ponds Angel Face (4), toiletries. Quickies (3). Robinson's lemon barley water (3), orange squash (3). Robinade (2).

Saxin (6). Silvikrin hair cream. Spray Tan. Sprinkleen. Sun-orange Quosh (3). Vapex. Vosene shampoo. Yeast-Vite.

NORTHERN

Airwick (3). Ajax cleanser. Alka Seltzer. Andrew's liver salt (3). Arrid Roll-on (3). Bartex sunglasses. Beecham's pills (3), powders (3). Bristow's shampoo (3). Brylcreem (3). Colgate dental cream. Dento (3). Dinneford's magnesia.

Eno's Fruit Salt (2). Flit press-button spray (2). Frozoclone (3). Fynnon salt (2). Hiltone (2). Gayclord Hauser yeast (2). Germolene (3). Ingram's shaving cream (3). Iron Jelloids. Ibcol (7). Knight's Castile soap (7). Larson's Swedish milk diet (2). Lucozade (4).

Maclean's tooth-paste. Max Factor preparations. Milk of Magnesia, tablets (2). Optabs. Optrex (2). Parke, Davis shaving cream (2). Phensic (3). Phosferine (2). Phyllosan (3). Pond's Angel Face (4). Robinson's lemon barley water (3), orange squash. Robinade (2).

Saxin (6). Scholl's Zino pads (3). Setlers (2). Silvikrin hair cream. Spray Tan. Sprinkleen. Spratt's (7). Sun-orange Quosh (3). Twink (3). Vosene shampoo (3). Yeast-Pac. Yeast-Vite. (2). Zoflora.

SCOTLAND

Airwick (3). Ajax cleanser. Alka Seltzer (2). Amami wave set (3). Andrews liver salt (4). Askit (7). Bartex sunglasses. Beecham's powders (2). Bristow's shampoo (2). Brylcreem (3). Cephos (4). Colgate dental cream. Dinneford's magnesia.

Eno's Fruit Salt (2). Fynnon salt. Ibcol (7). Lucozade (6).

Macleans indigestion remedies, tooth-paste. Max Factor preparations. Mothaks (3). Optrex (2). Optone (2). Persomnia. Phensic (4). Pond's Angel Face (4). Robinson's lemon barley water (2). Robinade (2).

Saxin (5). Silvikrin pure. Simpkins products. Spray Tan. Sprinkleen. Sun-orange Quosh (3). Vosene shampoo. Yeast-Vite.

WALES

Airwick (2). Ajax cleanser. Alka Seltzer (4). Amami wave set (3). Andrews liver salt (3). Bartex sunglasses. Beecham's pills (3), powders (2). Bristow's shampoo (12). Brylcreem (3). Colgate dental cream.

Eno's Fruit Salt (2). Fynnon salt (2). Germolene (4). Ingram's shaving cream (4). Knight's Castile soap (7). Lucozade (3).

Macleans indigestion remedies, tooth-paste. Max Factor preparations. Milk of Magnesia. Mothaks (2). Phensic (3). Phyllosan (4). Ponds Angel Face (4). Robinson's lemon barley water (2), orange squash. Robinade (2).

Saxin (6). Silvikrin pure. Spratt's (5). Spray Tan. Sun-orange Quosh (2). Yeast-Vite (4).

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, June 8

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, car park, Saracen's Head hotel, Stratford Road, Shirley, at 2.30 p.m. Motor car treasure hunt.

LONDON CHEMISTS' GOLFING SOCIETY, Harpenden golf club. Fixture.

PHARMACEUTICAL GROUP, FRIENDS OF THE HEBREW UNIVERSITY, Washington hotel, Curzon Street, London, W.1, at 6.45 p.m. Dinner and ball.

Monday, June 9

LONDON UNIVERSITY, London Hospital Medical College, Turner Street, London, E.1, at 5.30 p.m. Special University lecture in pharmacology: Professor A. Albert (professor of medical chemistry, Australian National University) on " Chemical Aspects of Selective Toxicity."

FINCHLEY BRANCH, PHARMACEUTICAL SOCIETY, Bull & Butcher, Whetstone, at 8 p.m. Qualifying trials for darts match against North Metropolitan Pharmaceutical Association.

Thursday, June 12

INDUSTRIAL WELFARE SOCIETY, 48 Bryanston Square, London, W.1, at 10 a.m. Conference on " Joint Consultation in Industry."

C. & D. WEEKLY LIST OF PRICES

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; * = Tax 30 per cent.; ‡ = Tax 60 per cent.

IMPERIAL CHEMICAL INDUSTRIES, LTD., PHARMACEUTICALS DIVISION (from June 9)

Mepavlon tablets		Doz.		
400 mgm.	30	85 6	10 8	*R*
		Each		
	250	50 6	75 9	*R*
	1,000	202 0	*R*	
		Doz.		
Sulmezil tablets	25	128 0	16 0	*R*
	100	471 0	58 10½	*R*
		Each		
	500	188 9	283 1½	*R*
		Doz.		
suspension	50 mils	86 0	10 9	*R*

CROOKES LABORATORIES, LTD. (from June 2)

Argentum*	½ oz.	3 7½	*A*
	1 oz.	2 8½	*A*
	4 oz.	6 0	*A*
Argentum with ephedrine*	½ oz.	3 11	*A*
Karvol inhalant capsules*	10	2 5	*A*
	500	60 0	*A*
Lactalumina co. tablets*	12	1 0	*A*
Pedaform*	4 oz.	3 11	*A*
	16 oz.	8 5	*A*
Sulphanilamide spray		3 3	*A*
Sulphur (oral)*	8 oz.	5 5	*A*
	16 oz.	9 0	*A*
	80 oz.	36 0	*A*
Sulphur bath*	4 oz.	4 10	*A*
Collovet*	4 oz.	3 11	*A*

JOHN WYETH & BROTHER, LTD. (from June 9)

Equanil tablets		Doz.		
400 mgm.	20	57 0	6 4	*R*
		Each		
	250	50 6	67 4	*R*
		Doz.		
Equanil H.S. tablets				
200 mgm.	20	36 0	4 0	*R*
		Each		
	250	30 0	40 0	*R*
		Doz.		
Equaprin tablets*	20	35 0	4 10	*R*
		Each		
	250	26 3	42 11	*R*

MERCK SHARP & DOHME, LTD. (from June 9)

		Each		
Pyrazinamide tablets				
0·5 gm.	500	450 0	675 0	*R*
Soluthricin concentrate				
2·5 per cent.	20 mils	20 0	30 0	*R*
		Doz.		
Sucrets*		16 6	2 6	*A*

LEDERLE LABORATORIES DIVISION, CYANAMID OF GREAT BRITAIN, LTD. (from June 9)

Miltown tablets	50	11 10	17 9	*R*
	500	101 0	151 6	*R*

PARKE, DAVIS & CO., LTD.

		Doz.		
Parke, Davis shaving cream*		30 0	3 0	*A*

P.A.T.A. LIST

(Alterations notified this week by the Proprietary Articles Trade Association.)

LIQUFRUTA LABORATORIES (from June 2)

Liqufruta*	14 0	1 11	*A*
	31 3	4 3	*A*
Medica.*	34 10	4 9	*A*

OPPENHEIMER, SON & CO., LTD. (from June 2)

Roboleine	37 10	4 6	*A*
	94 6	11 3	*A*
	Each		
	11 2	16 0	*A*

A. WANDER, LTD.

	Doz.		
Ovaltine rusks	9 7	1 0	*A*
	17 7	1 10	*A*

ADDITIONS TO THE LIST

EVANS MEDICAL SUPPLIES, LTD.

Chiban*	20 0	3 0	
Collozin* 4 fl. oz.	18 0	2 8½	
Collubarb 24	30 0		
100	72 0		
Coscopin lozenges 6 x 20	168 0	3 6	
linctus 4 oz.	36 0	4 6	
Ebefos* 8 fl. oz.	42 0	6 4	
Emolan‡	14 4	2 6	
Fitoban*	24 0	3 7	
Hepovite tablets 24	36 0	4 0	
Microban	15 0	1 10½	
Nobecutane			
bottles of 50 mils	126 0	15 9	
spray container 100 mils	210 0	26 3	
300 mils	342 0	42 9	
Oculax* 4 fl. oz.	15 6	2 4	
Ruban*	20 0	3 0	

LAMBERT CHEMICAL CO., LTD.

Listerine tooth-paste*	11 6	1 9	
	18 3	2 9	
Waterbury's compound*			
16 oz.	58 4	8 9	

NEW PRODUCTS AND PACKS

AUREX CO.

		Doz.	I.R.P.
Earex drops*		27 0	3 6
		60 0	7 6
Leathers wonderful ointment*		27 0	3 6
		60 0	7 6
Leathers golden ointment*		27 0	3 6
		60 0	7 6

H. BRONNLEY & CO., LTD.

Bronnley san-tan oil‡	3 6

CHASE LABORATORIES, LTD. (distributors: **WALTER CROWE, LTD.**)

Biocel cream‡	48 6	8 6

CUPAL, LTD.

Ant powder pack	1 6

DUNCAN, FLOCKHART & CO., LTD.

Atrol tablets* 5 mgm.	50		9 0
	500		81 0
20 mgm.	100		33 0
	500		135 0

EVANS MEDICAL SUPPLIES, LTD.

		Each	
Marevan tablets*			
3 mgm.	100	25 0	45 0
5 mgm.	100	40 0	72 0

JAMES WOOLLEY SONS & CO., LTD.

		Doz.	
Woolley frangula compound tablets*	48 x 10	32 0	1 2

KODAK, LTD.

Brownie movie camera turret f1·9*	1,015 9
field case	65 9

LABORATOIRES DU DR. N. G. PAYOT (distributors: **MUNRO VITAREX, LTD.**)

		Each	
Stimulation tonic lotion‡		9 7	20 0
creme nutricia‡		9 2	19 1
	tube	7 11	14 9
creme nutricia teintee‡		8 4	17 5

P. C. PRODUCTS, LTD.

1001 silicone barrier cream	2 6
	4 6
	10 0

REXALL DRUG CO., LTD.

		Doz.		
Thru	5 oz.*	66 0	9 9	

WARD CASSON, LTD.

		Each		
Arterochol*	12 fl. oz.	14 0	25 1½	
dispensing pack	80 fl. oz.	51 0		

G. D. SEARLE & CO., LTD.

Dartalan dihydrochloride tablets	5 mgm. 50	17 9	
	500	162 6	
10 mgm.	50	31 0	
	500	279 0	

THOS. CHRISTY & CO., LTD.

Yaxa duette pack*	26 1	3 11	

YARDLEY & CO., LTD.

Oatmeal complexion soap*	2 4	
Sapphire mascara‡	7 9	
refill‡	4 3	

C. & D. RETAIL AND DISPENSING PRICE LIST

The drug index for May was 205·6.

Cost d.	Cost per	Item	16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
72	500 gm.	Acid. ricinoleic., B.P., '48 ...	—	2 2	0 8	0 1
66	500 gm.	Adeps benz., B.P.C.	—	2 1	0 7½	0 1
48	500 gm.	Adeps lanæ hydrosus	—	1 7	0 5½	—
144	100 gm.	Balsam. tolut.	—	—	6 1	0 10
105	100 gm.	Bismuth. subgallas	—	—	4 6	0 8
30	500 gm.	Colophonium	—	0 11½	0 3½	—
81	500 gm.	Confectio sennæ	—	2 7	0 9½	0 1½
66	100 gm.	Copaiba, B.P.C., '49	—	—	2 8	0 5
144	2 kg.	Emuls. ol. morrhuæ, B.P. ...	4 1	1 2	0 4	—
36	500 gm.	Emuls. paraff. liq. c. agar. ...	3 10	1 1	0 4	—
102	500 mils	Ext. sennæ liq.	—	3 3	1 0	0 1½
135	100 gm.	Hydrargyrum (wgt.)	—	—	5 9	0 10
129	500 mils	Inf. buchu conc., B.P.C. ...	—	4 2	1 3	0 2
90	500 mils	Inf. sennæ conc., B.P.C. ...	—	2 11	0 10½	0 1½
348	2 litres	Linct. codein., B.P.C. **P.I. (13)**	—	2 10	0 10	0 1½
212	2 litres	Lin. camph.	—	1 8	0 6	0 1
42	500 mils	Liq. aluminii acetatis	—	1 4	0 5	—
60	500 mils	Liq. iodi aquos.	—	1 11	0 7	0 1
45	500 mils	Liq. iodi decolor. (meth.) ...	—	1 5	0 5	0 1
49	100 mils	Liq. iodi fort.	—	—	2 1	0 3½
102	500 mils	Liq. iodi mit.	—	3 3	1 0	0 1½
30	100 mils	Liq. tartrazin. co.	—	—	1 3	0 2
33	25 gm.	Ol. anisi	—	—	4 8	0 8
228	1 gal.	Ol. arachis	2 10	0 9½	0 3	—
62	25 gm.	Ol. limonis	—	—	—	1 1
37	1 pt.	Ol. lini opt.	3 9	1 1	0 4	—
61	2 pt.	Ol. terebinth. coml.	3 1	0 10½	0 3	—
180	500 gm.	Ol. theobromatis	—	5 9	1 9	0 3
92	500 gm.	Potassii cyanidum **S.1. (4)**	—	2 11	0 10½	—
228	500 gm.	Potassii iodidum	—	7 4	2 3	0 4
84	500 gm.	Sennæ fol. Tinnev. pulv. ...	—	2 8	0 10	—
123	25 gm.	Strychnin. pulv. ...**S.1. (4)**	per	gr.	0 1	2 6
57	500 mils	Syr. ferri phosph., B.P.C., '49 ...	—	1 10	0 6½	0 1
148	500 mils	Tinct. benzoin., B.P.C. ...	—	4 9	1 5	0 2½
87	500 mils	Tinct. hyoscyami	—	2 10	0 10	0 1½
90	500 mils	Tinct. valerian. simp.	—	2 11	0 10½	0 1½
159	100 gm.	Tragacantha	—	—	6 9	1 0
183	100 gm.	Tragacanthæ pulv.	—	—	7 8	1 2
162	250 gm.	Ung. hydrarg.	—	10 5	3 2	0 5½
135	500 gm.	Ung. hydrarg. dil.	—	4 4	1 4	0 2
46	500 gm.	Ung. simplex alb.	5 3	1 6	0 5½	—
46	500 gm.	Ung. simplex flav.	5 3	1 6	0 5½	—
180	2 kg.	Ung. sulphuris.	5 1	1 5	0 5	—
81	500 mils	Vap. benzoin., B.P.C.	—	2 7	0 9½	0 1½
108	500 mils	Vap. menthol. et benzoin. (meth), B.P.C.	—	3 6	1 1	0 2
51	500 mils	Vap. menthol. et eucalypt., B.P.C.	—	1 8	0 6	0 1

Cost d.	Cost per	TABLETS	Retail (in container) 25	100
65	1000	Aspirin., gr. 5	0 8½	1 7
183	1000	Aspirin. co., B.P.C.	1 1	3 1
172	1000	Aspirin. soluble, gr. 5, B.P.C.	1 3	3 5
132	1000	Cascaræ sagr. ext., gr. 2	0 11	2 5
198	1000	Colocynth. et jalap. co., B.P.C. ... **P.I. (13)**	1 4	3 9
453	1000	Phenobarb. et theobrom., B.P.C. **S.1.** R **only**	2 3	7 6
136	100	Sulphonal gr. 5 ... ... **S.1.** R **only**	5 7	19 10

Cost d.	Cost per	CAPSULES	Retail (in container) 25	100
213	1000	Halibut liver oil, B.P.C.	1 5	4 0

The bold letters and figures at left of dispensing price relate to the classification of poisons in THE CHEMIST AND DRUGGIST *Poisons Guide*.

There's money for you in SLIMMING



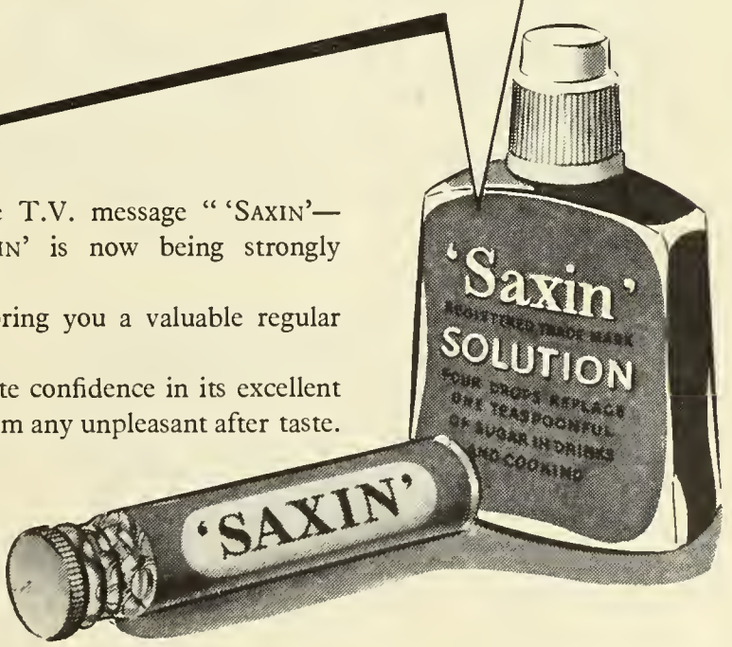
...if you show and recommend 'SAXIN'

TRADE MARK

Back up the T.V. message "'SAXIN'—*the non-fattening sweetener*". 'SAXIN' is now being strongly advertised on all T.V. stations.

Every new sale of 'SAXIN' can bring you a valuable regular customer.

Recommend 'SAXIN' with complete confidence in its excellent sweetening qualities and freedom from any unpleasant after taste.



100 *and* 200 *tablets in tubes.*
500 *tablets in family size bottle.*

Also 'SAXIN' Solution in attractive plastic container.

BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

BNF and CF

These **MERCK SHARP & DOHME** formulations are both:

'HYDROCORTONE' ointment (greasy)
'HYDROCORTONE' eye drops
'HYDROCORTONE' eye ointment
'HYDROCORTONE' saline suspension
CORTISONE ACETATE (MS&D) tablets
CORTISONE ACETATE (MS&D) injection
'CODELCORTONE' tablets (PREDNISOLONE)
'DELTACORTONE' tablets (PREDNISONE)

ALL Merck Sharp & Dohme steroids are CF Supply them against standard name orders

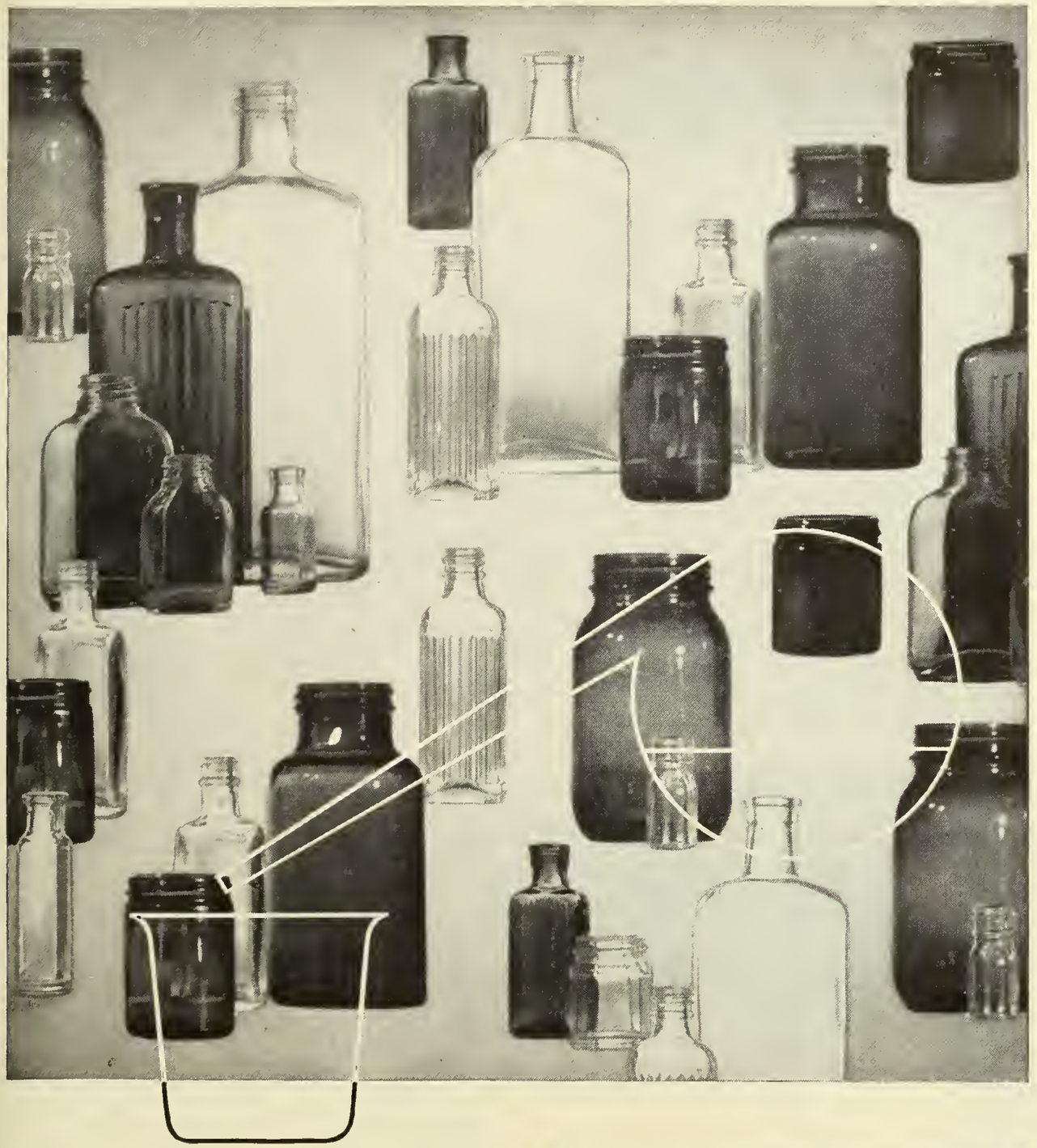
PREDNISONE . . . 'DELTACORTONE' **PREDNISOLONE** . . . 'CODELCORTONE'
PREDNISONE BUFFERED . . . 'CO-DELTRA'
PREDNISOLONE BUFFERED . . . 'CO-HYDELTRA'
HYDROCORTISONE . . . 'HYDROCORTONE'
CORTISONE . . . CORTISONE ACETATE (MS&D)

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Detensyl

Vegeto-Polyhormonic Hypotensor

The recognised treatment in conditions requiring the lowering of arterial tension

DETENSYL is another of the M.B.L. preparations which has been accepted by doctors in many countries. In various indications associated with blood pressure, regular administration restores normality. A small, periodic dosage is recommended for maintenance.
DETENSYL contains mistletoe, liver, pancreas and lung substances. More than a palliative, it re-educates the endocrine glands, allowing them to resume their regulation of the arterial tension.

MBL

INDICATIONS

Conditions frequently associated with blood pressure, such as **Menopausal Disturbances, Arteriosclerosis, Sclerosis of the Kidneys, Persistent Cephalalgia, Arthritis and Auditory and Ocular Troubles,** respond to DETENSYL therapy and almost inevitably disappear with the lowering of arterial tension.

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THERAPAS

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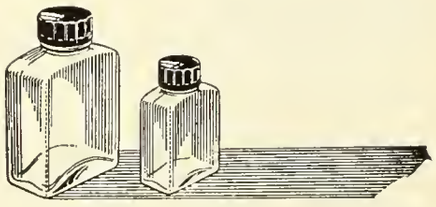
'Specialists in tuberculostatic drugs'

SMITH & NEPHEW
PHARMACEUTICALS LTD.
WELWYN GARDEN CITY · HERTS.

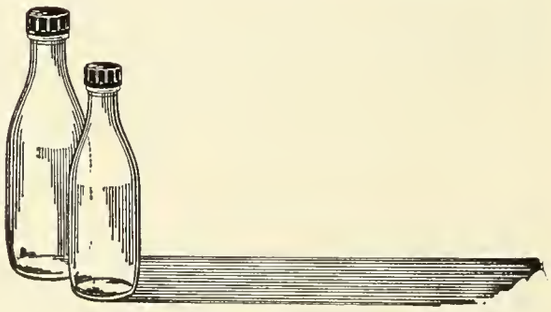
Pack to Attract

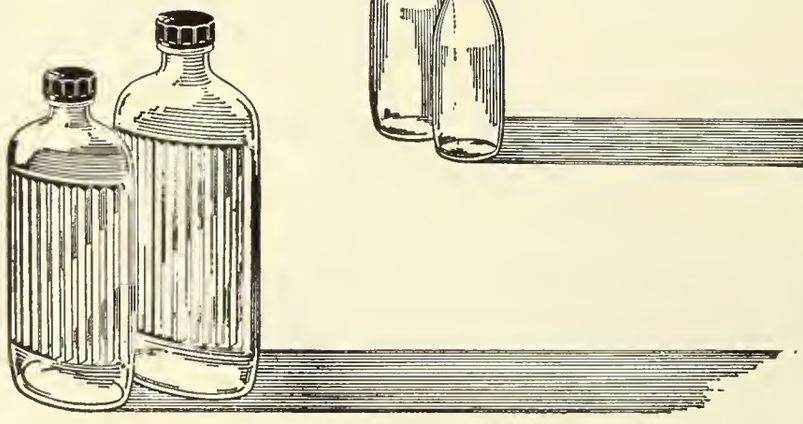


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GLASS BOTTLE MANUFACTURERS

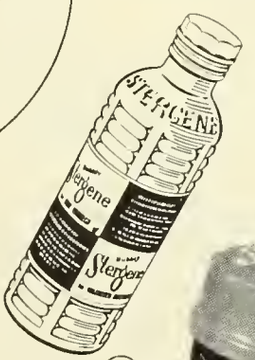
ROTHERHAM *Established 1751* **YORKS.**

"The Sign of a TRADE MARK REGISTERED *Good Bottle"*









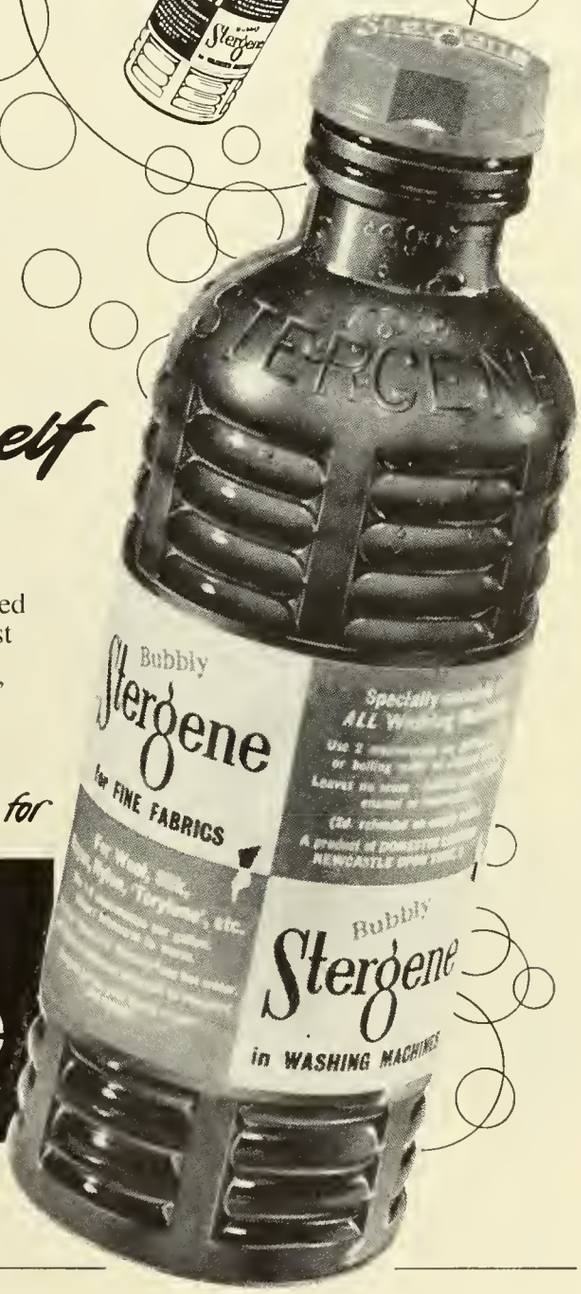
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Stergene

Sells itself— right from the shelf

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'Bubbly' Stergene removes and prevents nylon 'yellowing' —gives a long new lease of life to rayon, fine cotton, wool, 'Terylene'—all fine fabrics . . . .

...that is why more and more women are asking for



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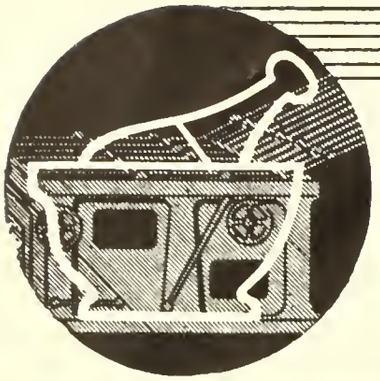
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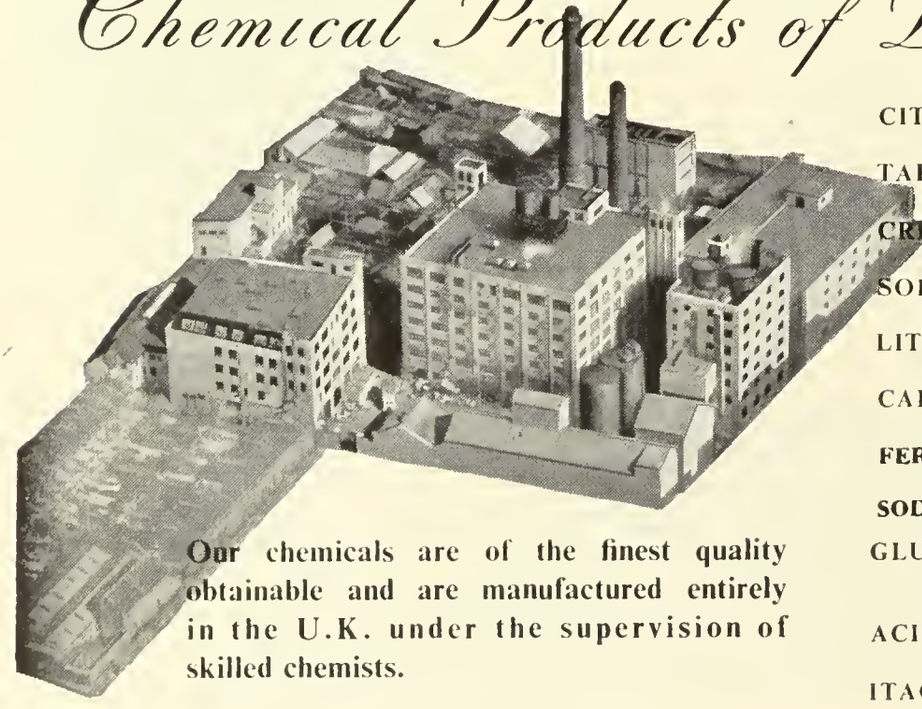
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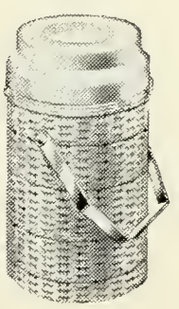
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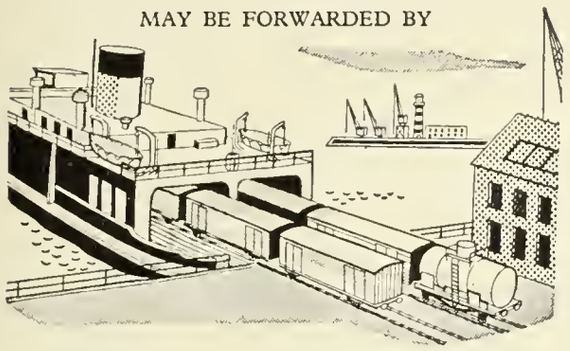
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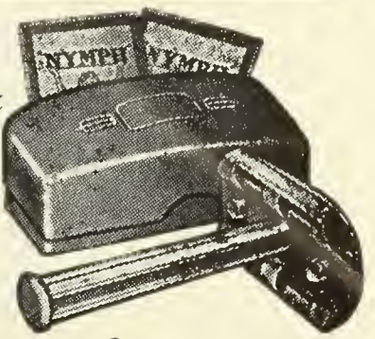
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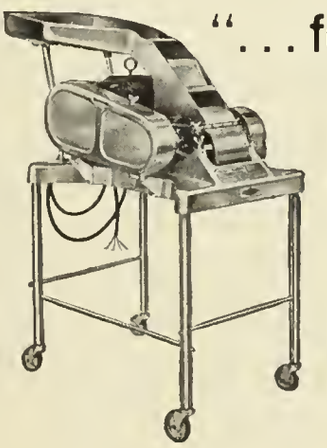
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NEW MALDEN, SURREY. Main-road shop. Good living accommodation. Garage space, excellent condition, most suitable chemist. Freehold £2,850 or near. Particulars E. Culff & Co., 92 St. Mary Road, Walthamstow, E.17. Larkswood 3391. C 1554

WEST BYFLEET, Surrey. New shop with living accommodation, central business position, can be sold freehold or leased for chemist. Particulars from Smith Bros. (Builders), Ltd., 3 Claremont Road, West Byfleet. (Phone: Byfleet 264.) C 1563

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IN THE ASHE LABORATORIES development programme provision is made for the purchase of one or more cosmetic, toiletry or proprietary medicine businesses. Principals are invited to contact Managing Director with a view to opening negotiations. Ashe Laboratories, Limited, Leatherhead, Surrey. C 396

APPOINTMENTS

ANCOATS HOSPITAL, MANCHESTER, 4
Locum Pharmacist

required. Salary £16 16s. per week. Applications to be addressed to the General Superintendent. C 8059

ANCOATS HOSPITAL, MANCHESTER, 4
Pharmacist

Applications are invited for the above post. Whitley Council scale and conditions. Salary £580—£785 p.a. Applications, stating age and experience, with names of two referees, to the General Superintendent. C 8058

BETHNAL GREEN HOSPITAL, CAMBRIDGE HEATH ROAD, LONDON, E.2
Locum Pharmacist

Salary up to 16 guineas a week. Apply to Hospital Secretary, Tel.: ADV. 3413. C 397

ARCHWAY GROUP HOSPITAL MANAGEMENT COMMITTEE
Pharmacist

required at Whittington Hospital, N.19. Salary £610—£815. Candidates may visit the department by direct arrangement with the Medical Superintendent (Archway 3070 Ext. 440). Applications stating age, qualifications, experience and naming two referees to Group Secretary, 46 Cholmeley Park, N.6, within 10 days. (Dept. P.7). C 8050

BLACK NOTLEY HOSPITAL, BRAINTREE, ESSEX
Assistant-in-Dispensing

required as soon as possible, resident or non-resident. Whitley Council salary and conditions of service. Applications to Hospital Secretary as soon as possible with details of qualifications, previous experience and two referees from whom further particulars may be obtained. C 8042

BRENTWOOD GROUP HOSPITAL MANAGEMENT COMMITTEE
Pharmacist

Applications invited for Pharmacist at Harold Wood Hospital, near London. Salary scale £580—£785 p.a. Whitley Council conditions of service. Temporary accommodation can be provided if required for single person. Applications, stating age and experience together with the names of two referees, to the Chief Pharmacist, Harold Wood Hospital, Harold Wood, Essex. C 8005

CHERRY KNOWLE HOSPITAL, RYHOPE, Nr. SUNDERLAND, Co. DURHAM
Assistant-in-Dispensing

required on (a) Part-time or (b) Full-time basis, as desired.
Remuneration—(a) 4/1d. per hour (pro rata to full-time of 39 hours per week); (b) Age 22 or over, £415 — £510 in seven increments. Applications to the Secretary at the above Hospital. C 8027

CANTERBURY GROUP HOSPITAL MANAGEMENT COMMITTEE
Deputy Chief Pharmacist

Applications are invited for the appointment of Deputy Chief Pharmacist to the Group Pharmaceutical Department (Category IV Hospitals). The department, which is situated at the Kent and Canterbury Hospital, serves the eleven hospitals and clinics in the area. Salary £675 rising by annual increments to a maximum of £910 per annum. Applications with full details and the names of two referees to be addressed as soon as possible to the Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury. C 8068

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE
Locum Pharmacist

required for the following periods: —

9th June	—	16th August
14th July	—	19th July
8th September	—	20th September

for duties at 3 hospitals within the Group. Salary up to 16 guineas per week. Applications to the Chief Pharmacist, St. Leonard's Hospital, Nuttall Street, London, N.1. C 377

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE
Locum Dispensing Assistants

required for the following period:—
23rd June — 28th June
for duties at a hospital within the Group. Salary up to £9 11s. 6d. per week, plus London Weighting, according to age and qualification. Applications to the Chief Pharmacist, St. Leonard's Hospital, Nuttall Street, London, N.1. C 378

CITY GENERAL HOSPITAL, SHEFFIELD, 5
Locum Pharmacist

required during period July to September. Work undertaken under the supervision of the Chief Pharmacist. Comfortable accommodation available for female Pharmacist, if required. Salary £16 16s. per week.
Apply, stating particulars of age, experience, etc., to the Group Secretary, "Lyndhurst," Nether Edge Hospital, Sheffield, 11. C 8073

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE
Senior Pharmacist and Pharmacist

required at Bethnal Green Hospital (350 Acute beds). The department has recently been modernised and is approved for training students. N.H.S. Scale within the range £680-£870 for Senior Pharmacist and £600-£815 for Pharmacist, plus appropriate higher qualification allowance. Apply with details of age, training and experience to the Group Secretary, 213 Kingsland Road, London, E.2. C 344

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Appointments—Continued

KENT AND CANTERBURY HOSPITAL, CANTERBURY
Post-graduate Student

required in the Group Pharmaceutical Department. Immediate vacancy. Salary £385 per annum. Enquiries to Group Pharmacist (telephone Canterbury 2291). Applications to Group Secretary,, Central Office, Nunnery Fields Hospital, Canterbury. C 8069

GENERAL HOSPITAL, MARGATE
Locum Pharmacist

required. Applications, stating age, qualifications and experience, with names of two referees, to the Hospital Secretary. C 402

HIGHBURY HOSPITAL, BULWELL, NOTTINGHAM
Pharmacist

Applications are invited for the appointment of full-time pharmacist. The post offers opportunity to obtain experience in pharmaceutical work for surgical, medical and maternity patients. Salary and conditions of service in accordance with the Pharmaceutical Whitley Council regulations. Applications, stating age, qualifications, experience, and names of two referees, to be sent to the Secretary. C 7976

HILL END HOSPITAL, ST. ALBANS, HERTS

Applications are invited for the following appointments, both for the period June 16 to July 12, 1958, at the above hospital within easy reach of Central London:

Locum Tenens Pharmacist,
Salary £16 16s. per week.

Locum Tenens Dispensing Assistant,
Salary and conditions according to Whitley scale.

Applications stating age and experience to Chief Pharmacist. C 8078

HOSPITALS FOR DISEASES OF THE CHEST
Locum Pharmacist (Category III)

required at THE LONDON CHEST HOSPITAL. Salary by arrangement.
Applications to the House Governor, London Chest Hospital, E.2. C 8063

KENT AND CANTERBURY HOSPITAL, CANTERBURY
Pharmacist

required for the Group Pharmaceutical Department at the Kent and Canterbury Hospital, Canterbury. This post offers excellent experience in all branches of Pharmacy. This department services the Canterbury Group comprising eleven hospitals with a total of approximately 850 beds. Salary (Category IV hospitals) £580 x £30 (6)—£760 x £25 (1)—£785. Higher qualifications allowance payable as appropriate. The Group Pharmacist will be pleased to answer any enquiry either by telephone or letter concerning the duties of the post. Enquiries from candidates about to sit their Final Examinations will be considered. Applications with full details and copies of three testimonials to be forwarded as soon as possible to the Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury. C 8067

LAMBETH HOSPITAL, BROOK DRIVE, S.E.11
Assistant-in-Dispensing

required. Whitley Council rates of pay and conditions. Applications, in writing, giving names of two referees to the Secretary. C 390

KENT AND CANTERBURY HOSPITAL, CANTERBURY
Locum Pharmacist

required for service in the Group Pharmaceutical Department for a period of approximately two months. Salary by arrangement and according to experience. Enquiries to Group Pharmacist (telephone Canterbury 2291). Applications to Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury. C 8070

LONDON JEWISH HOSPITAL, STEPNEY GREEN, E.1
Pharmacist

Applications are invited for the post of Pharmacist. Whitley Council salary scale and conditions of service. Applications, stating age, qualifications, experience, and the names of two referees, to the Secretary, Stepney Group H.M.C., Mile End Hospital, Bancroft Road, London, E.1. C 8064

LONDON JEWISH HOSPITAL, STEPNEY GREEN, E.1
Locum Pharmacist

required. Salary £16 16s. per week. Applications to the Chief Pharmacist (Tel. No.: Stepney Green 4251). C 8065

METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8
Locum Pharmacist

required as from June 2, 1958. Salary up to 16 guineas a week. Apply to Hospital Secretary. Tel.: CLissold 6862. C 392

MANSFIELD HOSPITAL MANAGEMENT COMMITTEE
Locum Pharmacist

required as soon as possible for the Group Pharmaceutical Department at the King's Mill Hospital, Sutton-in-Ashfield, Notts, for a period of three months in the first instance. Salary £16 16s. per week. This is an opportunity for a young pharmacist to gain experience of hospital pharmacy in a pleasant modern department. Applications to the Group Pharmaceutical Officer, King's Mill Hospital, Sutton-in-Ashfield, Notts. C 8057

METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8
(General 146 Beds)
Pharmacist

for modern department. Permanent post vacant due to retirement. Salary £600—£815, plus appropriate higher qualification allowance. Apply with details of age, training and experience to the Hospital Secretary. C 398

NETHER EDGE HOSPITAL, SHEFFIELD, 11
Locum Pharmacist

required from August 18 to September 13, 1958, or thereabouts. Salary by arrangement. Comfortable accommodation is available for female Pharmacist, if required.
Apply, stating particulars of age, experience, etc., to the Group Secretary, "Lyndhurst," Nether Edge Hospital, Sheffield, 11. C 8072

NOTTINGHAM No. 1 HOSPITAL MANAGEMENT COMMITTEE, NOTTINGHAM EYE HOSPITAL
Chief Pharmacist (Category II)

Applications are invited for the appointment of Chief Pharmacist (non-resident) at the above Hospital.
Salary and conditions of service in accordance with Whitley Council Regulations.
Applications giving full particulars, together with the names of three referees to be sent as soon as possible to the Group Secretary, General Hospital, Nottingham. C 8036

PINDERFIELDS GENERAL HOSPITAL, WAKEFIELD
Assistant-in-Dispensing

required. Apothecaries' Hall certificate preferred. Whitley Council salary scale applies. Address written applications, giving full personal particulars and two names and addresses for reference to W. BOWRING, Group Secretary, Pinderfields General Hospital, Wakefield. C 8034

PINEWOOD HOSPITAL, NINE MILE RIDE, WOKINGHAM
Locum Chief Pharmacist

required for two weeks from September 1. Salary £16 16s. per week. Residential accommodation available, £135 p.a. Applications to Secretary. C 8049

ROYAL NATIONAL THROAT, NOSE & EAR HOSPITAL, GRAY'S INN ROAD, LONDON, W.C.1
Assistant-in-Dispensing

required for August. Apothecaries' Hall Certificate. Hospital experience preferred. Whitley Council conditions and rates of pay. Apply personally or write to Chief Pharmacist. C 8051

STEPPING HILL HOSPITAL, STOCKPORT
Student Pharmacist

Applications are invited from post-graduate students for the above post.
Applications, stating age, educational qualifications, etc., to the Secretary, Stockport and Buxton H.M.C., 59B Shaw Heath, Stockport. C 8079

PRESTON AND CHORLEY HOSPITAL MANAGEMENT COMMITTEE, SHAROE GREEN HOSPITAL, PRESTON
Pharmacist

Applications are invited for the above post at the above busy general hospital.
Excellent opportunities to obtain wide experience in hospital pharmacy.
Whitley Council scale and conditions. Salary £580—£785 per annum, plus £25 per annum higher qualification allowance.
Applications, with names of two referees, to the Group Secretary, Royal Infirmary, Preston, Lancs. C 8060

STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE, ASHFORD HOSPITAL, ASHFORD, MIDDLESEX
Pharmacist

required on salary scale £580 to £785 per annum, plus London Weighting Allowance, OR Locum Pharmacist, salary £16 16s. per week. Applications, stating age, qualifications and experience, with copies of up to three recent testimonials, to Medical Director of Hospital immediately. C 385

STOCKPORT AND BUXTON HOSPITAL MANAGEMENT COMMITTEE
Senior Pharmacist

There is an immediate vacancy at Stepping Hill Hospital, Stockport, which offers good experience in a modern department providing pharmaceutical service to a group of hospitals.
Applications with full particulars to the Secretary, Stockport and Buxton H.M.C., 59B Shaw Heath, Stockport. C 8080

SUNDERLAND EDUCATIONAL AUTHORITY TECHNICAL COLLEGE
Senior Lecturer

Applications are invited from Honours Graduates in Pharmacy or other suitably qualified candidates for the post of Senior Lecturer in Pharmacology at salary in accordance with the Burnham Scale (Men: £1,350 x £50—£1,550; Women: £1,080 x £40—£1,250 plus equal pay increments). The successful candidate will be required to teach for Part II of the London B.Pharm. degree, and to undertake original research.
Further particulars from the Registrar, The Technical College, Sunderland, co. Durham. Applications to be returned to the undersigned within two weeks of this advertisement.
Canvassing will disqualify.

W. THOMPSON,
Director of Education.

Education Offices,
15 John Street,
Sunderland. C 8066

ST. HELEN'S HOSPITAL, HASTINGS, SUSSEX
Locum Chief Pharmacist

required from June 30 to July 12 (inclusive dates). Accommodation available (if a woman) in the nurses' home. Salary by arrangement. Applications to Administrator. C 8048

ST. LEONARD'S HOSPITAL, NUTTALL STREET, LONDON, N.1
Senior Pharmacist

Permanent post in modern department. Salary £650 to £830, plus appropriate London Weighting and high qualification allowance. Apply with details of age, training and experience to Hospital Secretary. C 400

ST. OLAVE'S HOSPITAL, ROTHERHITHE, S.E.16
Pharmacist and Assistant-in-Dispensing

required as soon as possible. Whitley Council conditions. Salaries: Pharmacist £580—£785 p.a. according to experience; Assistant-in-Dispensing (age 22 and over) £375—£490, with £20 payable for appropriate qualification. London Weighting applies in both cases. Apply giving details, with names of two referees, to Hospital Secretary. C 8035

Appointments—Continued

ST. LEONARD'S HOSPITAL, NUTTALL STREET, LONDON, N.1
Locum Pharmacist
required from June 16, 1958. Salary up to 16 gns. a week. Apply to Hospital Secretary. Telephone: Clerkenwell 2901. C 401

ST. PETER'S HOSPITAL, CHERTSEY, SURREY
Pharmacist and Assistant-in-Dispensing
required. Whitley Council conditions. Hospital in pleasant rural surroundings within easy reach London. Temporary accommodation available for single woman. Salaries: Pharmacist £580 to £785 according to experience. Assistant-in-Dispensing (age 22 or over) £375 to £490.
Applications, stating age and experience, giving two references to Administrative Officer. C 8010

ST. STEPHEN'S HOSPITAL, CHELSEA, S.W.10
Assistant-in-Dispensing
required from June 9. Terms by arrangement. Apply, Chief Pharmacist. C 8071

WINWICK AND NEWCHURCH HOSPITAL MANAGEMENT COMMITTEE
Applications are invited for the post of
Senior Pharmacist
in the Group Pharmaceutical Department at Winwick Hospital (2,305 beds).
Salary £650 x £30 (6)—£830.
Applications giving date of birth, full particulars regarding qualifications, and experience together with names and addresses of two referees should be forwarded to Medical Superintendent (Ref.: CD/90), Winwick Hospital, Warrington, to arrive not later than June 21, 1958. C 8040

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Applicants should be graduates in Pharmacy with adequate experience in teaching, research, hospital or industry. Appointment will be made at Senior Lecturer or Lecturer grade according to qualifications and experience. Successful candidate will be expected to show active interest in expansion which College is now undergoing, and in research.
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plus equal pay increments.
Lecturer:
Men .. .. £1,200 x £30—£1,350 p.a.
Women .. .. £960 x £24—£1,080 p.a.
plus equal pay increments.
Details and application form from Registrar, College of Technology, Ashley Down, Bristol, 7. C 8054

SITUATIONS VACANT
RETAIL (HOME)

OLDHAM CO-OPERATIVE CHEMISTS, LTD., invite applications for position of pharmacist branch manager. Accommodation, modern house made available, if necessary. Superannuation. Salary and other emoluments, £930. Applications, stating age, experience, etc., to Oldham Co-operative Chemists, Ltd., King Street, Oldham. C 388

PHARMACIST, lady or gentleman, required as assistant to our superintending chemist and relief branch manager. Promise of promotion to branch manager to suitable applicant in near future. Temporary housing accommodation available at moderate rent. Applications to General Manager, Abersychan and Pontypool Co-operative Society, Ltd., Hanbury Road, Pontypool, Mon, by Wednesday, June 11, 1958. C 1541

DESBOROUGH—NORTHANTS
LOCUM required immediately, due to death of pharmacist. Please state when, and length of time available, together with terms, to the Managing Secretary, Desborough Co-operative Society, 41 Station Road, Desborough. (Phone: Desborough 204.) C 1561

NORTH LONDON. Manager required for busy pharmacy with heavy dispensing connection. Good basic salary plus bonus based on net profit. Living accommodation suitable for a family man. If desired, an investment by way of shares can be taken up, either now or later. Excellent opportunity for keen and energetic pharmacist as the business, although already substantial from the standpoint of turnover, offers plenty of scope for further expansion. All replies treated in strict confidence. Box C 8081.

WHOLESALE

ADDITIONAL MEDICAL REPRESENTATIVES required in England and Scotland to promote unique diagnostic reagents fully recommended and endorsed by doctors and hospitals. Good knowledge of Pharmacy or Biochemistry highly desirable but essential qualifications are initiative, genuine enthusiasm and a lively personality. Age 26-36. Good commencing salary and expenses during training. Advancement in accordance with success. Company car and contributory pension scheme. Write brief letter stating reason for application attaching typed career sheet giving full details of age, education and experience to date in chronological order. Also recent photograph which will be returned. Director, Medical Department, Ames Company (London), Limited, Nuffield House, Piccadilly, London, W.1. C 8052

REPRESENTATIVE required calling on U.K. hospitals, by manufacturers of surgical instruments, hypodermic syringes, laboratory glassware, etc., preference given to applicant with medical background. Existing accounts handed over to suitable man. Remuneration, salary and commission, car expenses or car provided. Box C 1556.

MEDICAL REPRESENTATIVES

A progressive pharmaceutical company requires a number of representatives to augment its present field force in the U.K.

Successful candidates will undertake the personal promotion of a range of first-class ethical products to the medical profession. Vacancies will occur in the following areas:—

North West London; Essex and East London; Derby and Staffordshire; Cheshire and North Wales; North Lancashire; Leeds and Huddersfield; Yorkshire (North and East Ridings); Northumberland, Cumberland and Durham.

Applications are invited from young men aged 25-35 who are capable of tackling enthusiastically a job which requires a high degree of initiative.

Selected candidates will be given a full course of training prior to taking up their duties, and successful completion of this course will be a condition of employment. Payment will be by salary and a generous expense allowance will be given. Company car supplied; non-contributory pension scheme.

Applications, giving fullest details of age, education, career to date, present salary and area preferred, should be addressed to:

The Personnel Officer,
SMITH KLINE & FRENCH LABORATORIES LTD.
120 COLDHARBOUR LANE · LONDON · S.E.5

Closing date for receipt of applications June 14th, 1958.

C 8039

BAYER PRODUCTS LIMITED

SALES APPOINTMENTS

A MEDICAL REPRESENTATIVE is required in the Central Midlands. We are looking for a man who has a pharmaceutical or medical background or proved selling ability in a similar field, plus the capacity to profit by a training course. We offer a good salary and expenses, a Company car, personal insurance and superannuation. Equally important, we offer security in the progressive representative team of an established ethical company. Holiday arrangements respected. If you have the qualifications, background and initiative necessary, write or telephone for an application form to the Sales Manager, Bayer Products, Ltd., Neville House, Eden Street, Kingston-on-Thames, Surrey. Telephone No. Kingston 7733. C 8045

RIKER

An attractive opening arises in the Sales Department of Riker Laboratories for a pharmacist or other suitably qualified person to take charge of the company's publicity activities. He will be responsible for the creation of literature and advertisements as well as the preparation and editing of information material for a large force of representatives. The successful candidate should be capable of creative thought and should naturally have a flair for writing. The company has no Advertising or Publicity Manager at the present time and the person appointed will have the opportunity to build up the publicity department. Remuneration is by salary and bonus and there is a Pension Scheme in operation. Preferred age 25 to 35.

Write in the first instance to the General Sales Manager, Riker Laboratories Ltd., Loughborough, Leics., marking the envelope Publicity. C 8061

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Situations Vacant—Continued

ABBOTT LABORATORIES LIMITED have vacancies for young pharmacists in their development section concerned with formulations of new products. Experience not essential but candidates must possess initiative and have aptitude for this type of work. Five-day week, pension scheme, etc. Apply the Secretary, Ref. H.L., Abbott Laboratories Limited, Bede Trading Estate, Jarrow-on-Tyne, co. Durham. C 8041

ALLIED LABORATORIES LIMITED

Medical Representative

As a result of reorganisation and expansion, applications are invited for vacancies in the following territories:

1. West London.
2. Cheshire and South Lancashire.
3. Sussex.

Previous experience in representative work is desirable but not essential as training will be given. A sound pharmaceutical and/or medical background is, however, necessary. Applicants should hold a current driving licence and reside in the area for which applying. Remuneration is by salary and expenses and a car is provided. An attractive Life Assurance and Pension Scheme is also in operation. Applications, giving details of career to date, should be addressed to Sales Manager, Allied Laboratories, Ltd., 140 Park Lane, London, W.1. C 399

BOOTS PURE DRUG CO., LTD., have a vacancy for a pharmacist for an interesting and administrative post dealing with technical matters. The post is at the Nottingham Headquarters where a 5-day week is worked, and the successful candidate will be admitted to the pension fund after a short probationary period. Candidates should not be more than 35 years of age and retail experience would be an advantage. Applications by letter to the Personnel Manager, Station Street, Nottingham. C 8044

SALES REPRESENTATIVES (free-lance) to handle ethical product. Very good commission. Closed territory, existing connection transferred and long-term agreement arranged. Replies treated as confidential and interested parties have been informed. Box C 1565.

STAFFORD ALLEN & SONS, LTD., Long Melford, Suffolk, require an alert, keen and enthusiastic young man, about 25, as assistant to filling and packing manager. Ideal working conditions and excellent prospects. Superannuation scheme in operation. Housing problems will receive sympathetic consideration. Apply in writing giving full relevant details to Filling and Packaging Manager. C 8076

ELI LILLY & COMPANY LIMITED

Medical Representatives

As a result of continuing expansion, applications are invited for the following territories where vacancies will shortly become available:—

1. Bedfordshire and Buckinghamshire.

2. Tees-side and North Riding.

Candidates should hold a pharmaceutical qualification and be under 35 years of age. Previous experience is not considered essential as a complete training will be given. A generous starting salary subject to regular review is offered, together with an annual incentive bonus and participation in the Company's non-contributory pension and insurance seheme.

Applications giving full particulars of education and pharmaceutical background should be addressed to:—

Eli Lilly & Company Limited, Basingstoke, Hants. C 8082

MEDICAL REPRESENTATIVES

A progressive, leading Pharmaceutical Company has vacancies for Medical Representatives in the following parts of the United Kingdom.

(1) London (all postal districts).
(2) Lancashire (South and North-west).
(3) The Midlands.
(4) Somerset and Devon.
(5) Sheffield.

Applications are invited from Pharmacists or men with pharmaceutical experience to fill these positions where enthusiasm and hard work will be rewarded by good conditions of service and assured future. Applications giving full details of career to date should be addressed to Box C 7988.

REPRESENTATIVE

THE DISTILLERS COMPANY LTD.

The Distillers Company (Biochemicals), Ltd., a subsidiary of The Distillers Co., Ltd., and manufacturers of antibiotics and vitamin products, have a vacancy for a medical and pharmaceutical representative to cover Leicestershire, Northamptonshire and part of Lincolnshire.

Candidates should be aged not over 45, living in or near Leicester, and should preferably hold a pharmaceutical qualification. The salary paid will be commensurate with qualifications and experience; a car will be provided. The Company operates a non-contributory pension scheme.

Write:
The Home Sales Manager, The Distillers Company (Biochemicals), Limited, Broadway House, The Broadway, Wimbledon, London, S.W.19

Correspondence should be marked "Confidential." C 8083

WANTED : Assistant lady or gentleman chemist with qualification or experience for the analysis of food and drugs in a factory in pleasant surroundings in the Watford district. Five-day week, canteen and recreational facilities. Please write, giving all details and salary required to Box C 8038.

VETERINARY REPRESENTATIVE

THE DISTILLERS COMPANY LTD.

The Distillers Company (Biochemicals), Ltd., a subsidiary of The Distillers Co., Ltd., and manufacturers of antibiotics and vitamin products, wish to appoint a Veterinary Representative to call on veterinary surgeons in South-west England and South Wales. Candidates should desirably have previous experience of this type of work.

The salary paid will be commensurate with qualifications and experience; a car will be provided. The Company operates a non-contributory pension scheme.

Write:
Staff Manager, The Distillers Company Limited, 21 St. James's Square, London, S.W.1.

Quote: Ref. 44/58, C.D. C 8084

UPJOHN

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EXPORT SALES MANAGER FOR EUROPE

Owing to the rapid growth of their international operations, Upjohn International wish to appoint an Export Sales Manager to develop their Pharmaceutical Specialities in European markets.

Applicants for the post should be well educated men of the highest integrity, of striking personality and should have exceptional experience in the field of pharmaceutical export marketing. They should be 30-40 years of age, should have perfect command of two or three European languages and should possess a degree or other qualification in pharmacy.

Candidates should be willing to reside in England during an initial period of training at the headquarters of Upjohn's British Subsidiary Company in Crawley, Sussex, and also be prepared to operate from other centres in Europe when required.

The appointment is an important one carrying considerable responsibility and offering unusual opportunity for personal progress to a man possessing initiative, diligence and the right experience. The post will be highly paid and pensionable. Arrangements can be made to interview likely candidates in Continental cities.

Applications should be made in writing only, giving fullest details of general education, languages spoken, qualifications, experience of pharmaceutical marketing to:

MR. J. A. BRAUN, VICE-PRESIDENT
c/o UPJOHN OF ENGLAND LTD
CRAWLEY · SUSSEX · ENGLAND

C 8053

Situations Vacant—Continued

SENIOR ANALYTICAL CHEMIST required by well-established company near London. Honours Degree or equivalent and sound experience, preferably in the Pharmaceutical Industry, essential. The position is partly supervisory in nature. Commencing salary according to qualifications and experience. Write giving full details to Box C 8062.

AGENTS WANTED

M.A.A.—The Badge of a good manufacturers' agent. Manufacturers requiring reputable agents are invited to communicate with the Secretary, The Manufacturers' Agents' Association of Great Britain & Ireland (Inc.), Bream's Buildings, E.C.4. Membership available to established agents only. Particulars supplied. C 4

SITUATIONS WANTED

RETAIL (HOME)

LADY (not young) with many years' experience in dispensing, book-keeping and reception in private practice, hospital and retail, requires post. Free July. Box C 1558.

MISCELLANEOUS SALES

100 BAYS of brand new adjustable steel shelving, 72 in. high x 34 in. wide x 12 in. deep, stove-enamelled dark green. Sent unassembled, six-shelf bay, £3 15s. Sample delivered free. Quantity discounts. N. C. Brown, Ltd., Eagle Steelworks, Heywood, Lancs. Tel.: 69018. C 8011

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L. FRANKENBERG, LTD.,
37 HOUNDSDITCH,
LONDON, E.C.3
C 269

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WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020 and 7692. C 140

AGENCIES WANTED

EAST AFRICA
A leading British Company with eight branches throughout Kenya, Tanganyika and Uganda, acting as agents, stockists and distributors for several foremost Pharmaceutical Houses, is now in a position to accept additional agencies for pharmaceutical and allied products both medical and veterinary. Write Box C 1540.

EX-PERFUMERY BUYER in Northern Ireland with good connections is interested in taking over first-class agencies. Write under Box C 1560.

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167/173 Wandsworth High Street, London, S.W.
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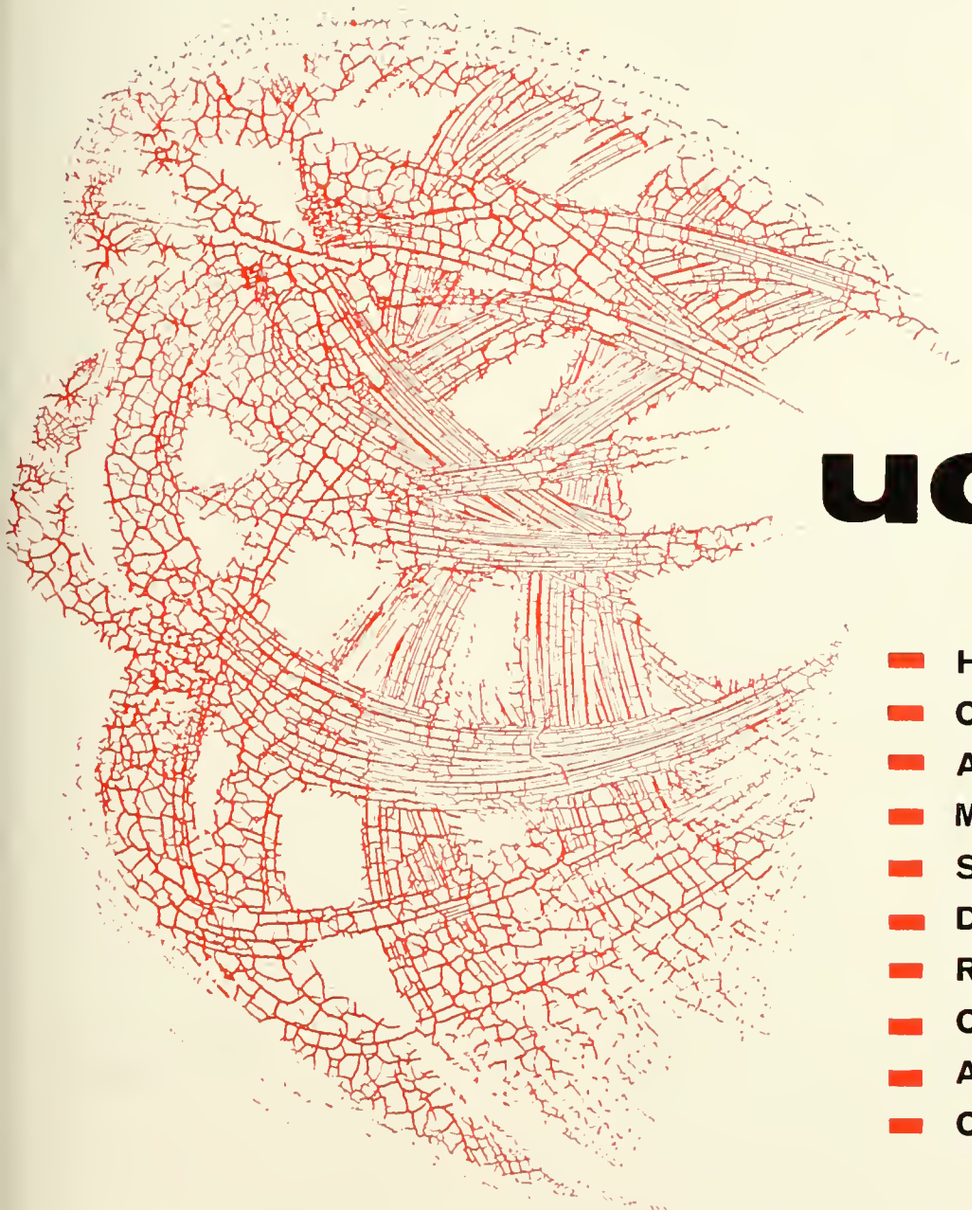
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